Mineral Resources

Petroleum and Natural Gas

Miscellaneous Report 82–1

Reservoir Annual 1981

Saskatchewan

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PREFACE

The 1981 Reservoir Annual has been compiled to consolidate pertinent information on all oil and gas reservoirs in Saskatchewan into a convenient reference manual. The main sections of the report contain oil and gas reserves data, development and producing data and information concerning enhanced recovery projects. The remaining sections present related reservoir information.

Publication of the Reservoir Annual commenced in 1963 and has since undergone a number of changes to improve the presentation and to increase the amount of information that is useful to both industry and government.

I would like to acknowledge the assistance of the oil and gas companies operating in Saskatchewan for submitting to the department much of the material that has been used in the preparation of this report.

W. Colin Thatcher,
Minister of Energy and Mines

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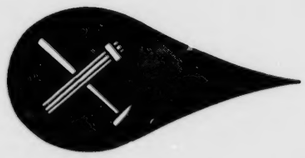


INTRODUCTION

TABLE I

REMAINING OIL RESERVES IN SASKATCHEWAN

(Million Cubic Metres)

	Remaining Established Reserves (Dec.31/80)	1981 Additions to Reserves			1981 Production	Net Change in Reserves During 1981	Remaining Established Reserves (Dec.31/81)
		Revisions	Drilling	Total			
Area I - Heavy	23.774	-0.639	+1.977	+1.338	2.039	-0.701	23.073
Area II - Heavy	4.612	+0.221	+1.814	+2.035	0.565	+1.470	6.082
Area II - Light	5.737	+0.018	+0.201	+0.219	0.490	-0.271	5.466
Area III - Medium	18.406	-0.014	+0.143	+0.129	1.310	-1.181	17.225
Area IV - Medium	29.808	-0.352	+0.250	-0.102	1.611	-1.713	28.095
Area IV - Light	21.677	-0.359	+0.703	+0.344	1.377	-1.033	20.644
Provincial Total	104.014	-1.125	+5.088	+3.963	7.392	-3.429	100.585

INTRODUCTION

The 1981 Reservoir Annual is published by Saskatchewan Energy and Mines with the aim of providing subscribers with current statistical information pertaining to reservoir parameters and performance of Saskatchewan oil and gas pools. Sections C and D list reservoir data, reserves and production for all provincial oil and gas pools. Also included in these sections are five year summaries of reserves, production and well counts by producing areas. Of considerable importance as well, are the sections presenting pool and area maps of the province, unit and enhanced recovery project listings and pool pressure data. Also included in this publication are sections illustrating well logs of various producing formations, gas plant performance charts, tables of "Maximum Permissive Rate" factors and formation water resistivity survey results. Information contained in this edition of the Reservoir Annual is as of December, 31 1981 unless otherwise indicated.

The reserve values contained in the Reservoir Annual are "established reserves" as adopted from the recommendations of the Joint Industry/ Government Task Force on Uniform Reserves Terminology. Established reserves are defined as those reserves recoverable under current technology and present and anticipated economic conditions, specifically proved by drilling, testing or production, plus that judgement portion of contiguous recoverable reserves that are interpreted to exist from geological, geophysical or similar information , with reasonable certainty.

Provincial oil production in 1981 was slightly under 7.4 million cubic metres, a decrease of approximately 1.9 million cubic metres from the previous year. Most of this decrease can be attributed to production cut-backs and marketing problems which plagued Saskatchewan oil producers in 1981. Additions to initial oil reserves in 1981 were approximately

4.0 million cubic metres resulting in a net decrease of 3.4 million cubic metres in remaining established reserves compared to 1980 year-end reserves. The reserve additions were down significantly from 1980 due mainly to the depressed level of drilling in the province during 1981. The majority of the 1981 reserve additions occurred in the Lloydminster-Kindersley heavy oil area of the province (Areas I and II Heavy) and were the result of both drilling and implementation of several small pilot enhanced oil recovery projects. Table 1 provides a more detailed summary of oil reserves changes for 1981.

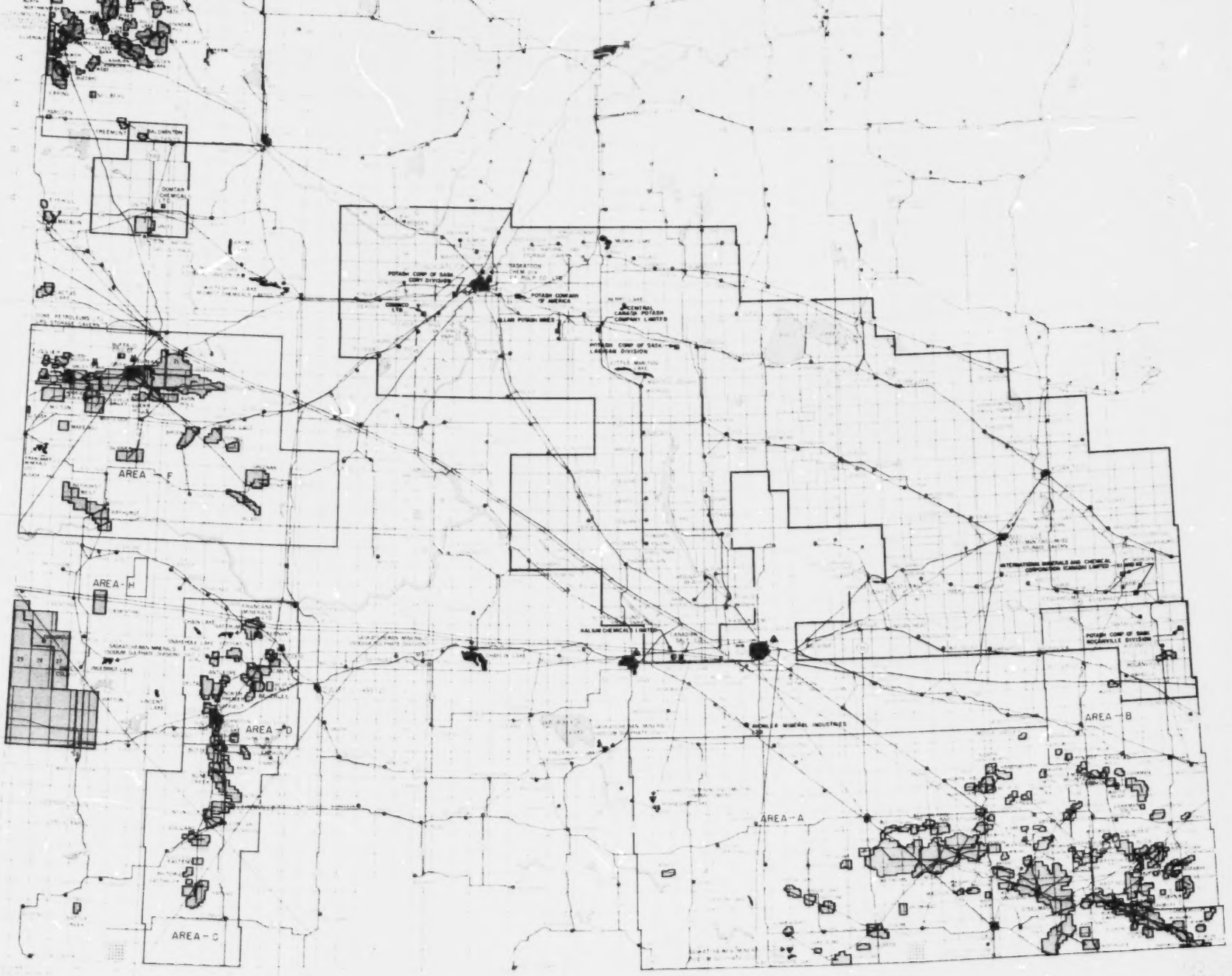
Natural gas production in 1981 was 1.212 billion cubic metres, up very slightly from the 1.210 billion cubic metres produced in 1980. Initial reserves of natural gas were increased by 3.0 billion cubic metres resulting in a net gain of nearly 1.8 billion cubic metres in remaining reserves during the past year.

The purpose of this publication is to provide industry with reliable and pertinent information on provincial oil and gas reservoirs and any suggestions or comments on possible improvements in this regard would be welcomed by Saskatchewan Energy and Mines.

POOL AND AREA

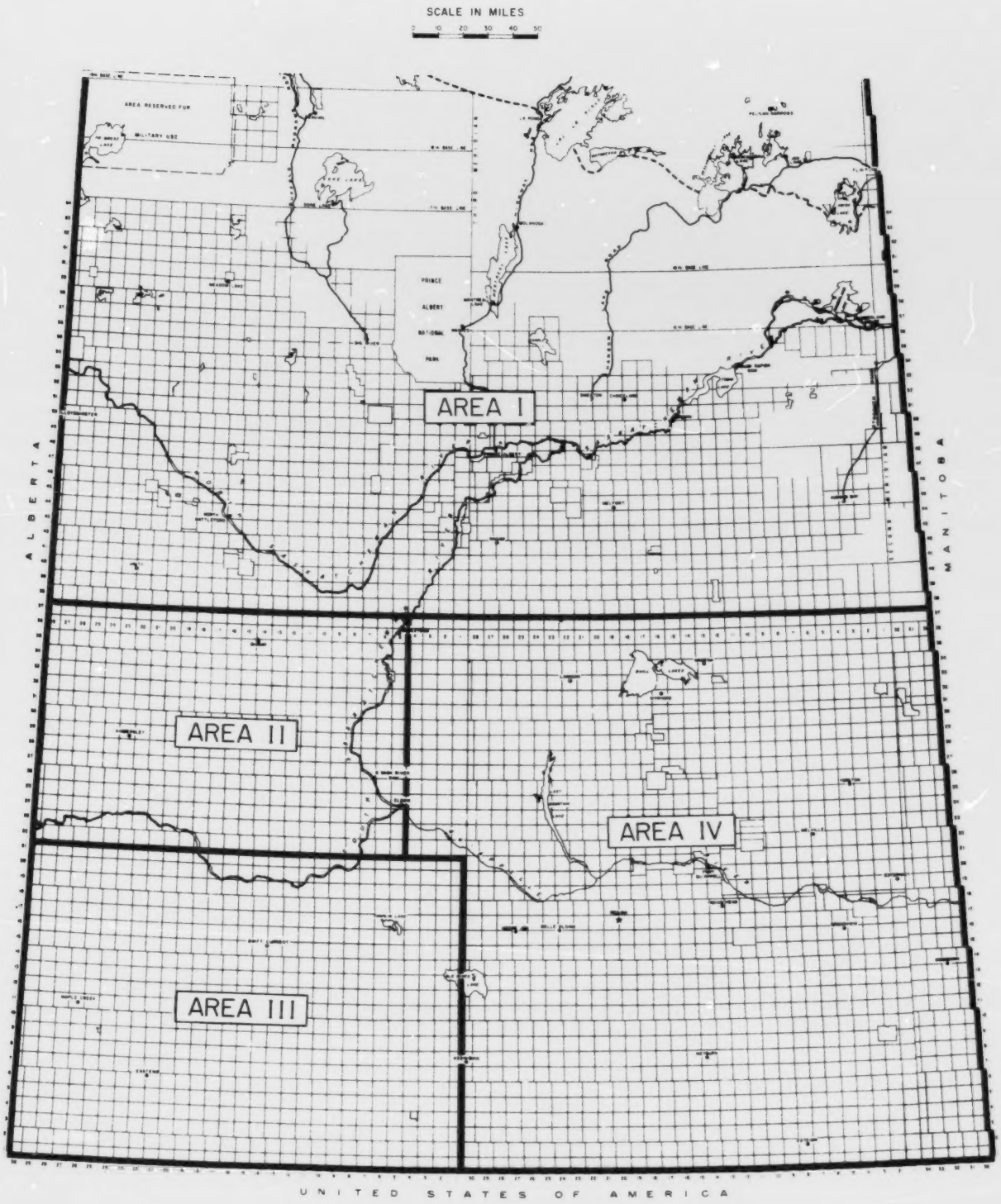
MAPS

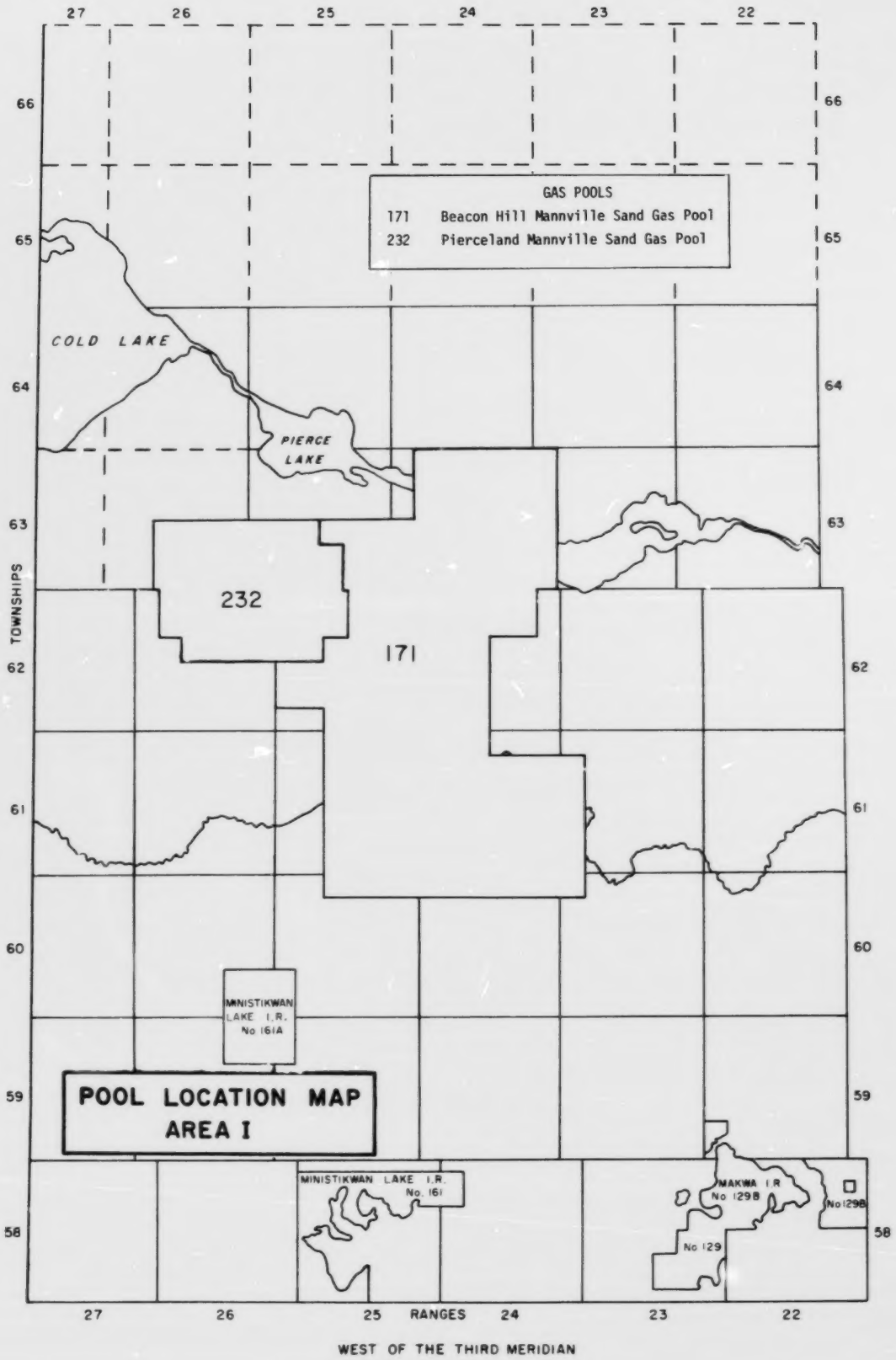
MINERAL DEVELOPMENT MAP OF SOUTHERN
SASKATCHEWAN
SHOWING
DESIGNATED OIL AND GAS POOLS, WELL SPACING AREAS, COMMERCIAL POTASH AREAS, OIL AND GAS PIPE LINES, REFINERIES, BENTONITE PLANTS, GAS CONSERVATION PLANTS, POTASH MINES, SODIUM SULPHATE PLANTS AND DEPOSITS, AND SALT PLANTS
LEGEND
Oil Pools
Gas Pools
Well Spacing Areas
Commercial Potash Areas
Oil Pipe Lines
Gas Pipe Lines
Oil Refineries
Bentonite Plants
Gas Conservation Plants
Potash Shaft Mine
Potash Solution Mine
Sodium Sulphate Plants
Sodium Sulphate Deposits
Salt Plants
Revised to December 31, 1981
SASKATCHEWAN
AREA SHOWN
AREA-G


AREA – F
AREA – H
AREA – D
AREA – C
AREA – A
AREA – B

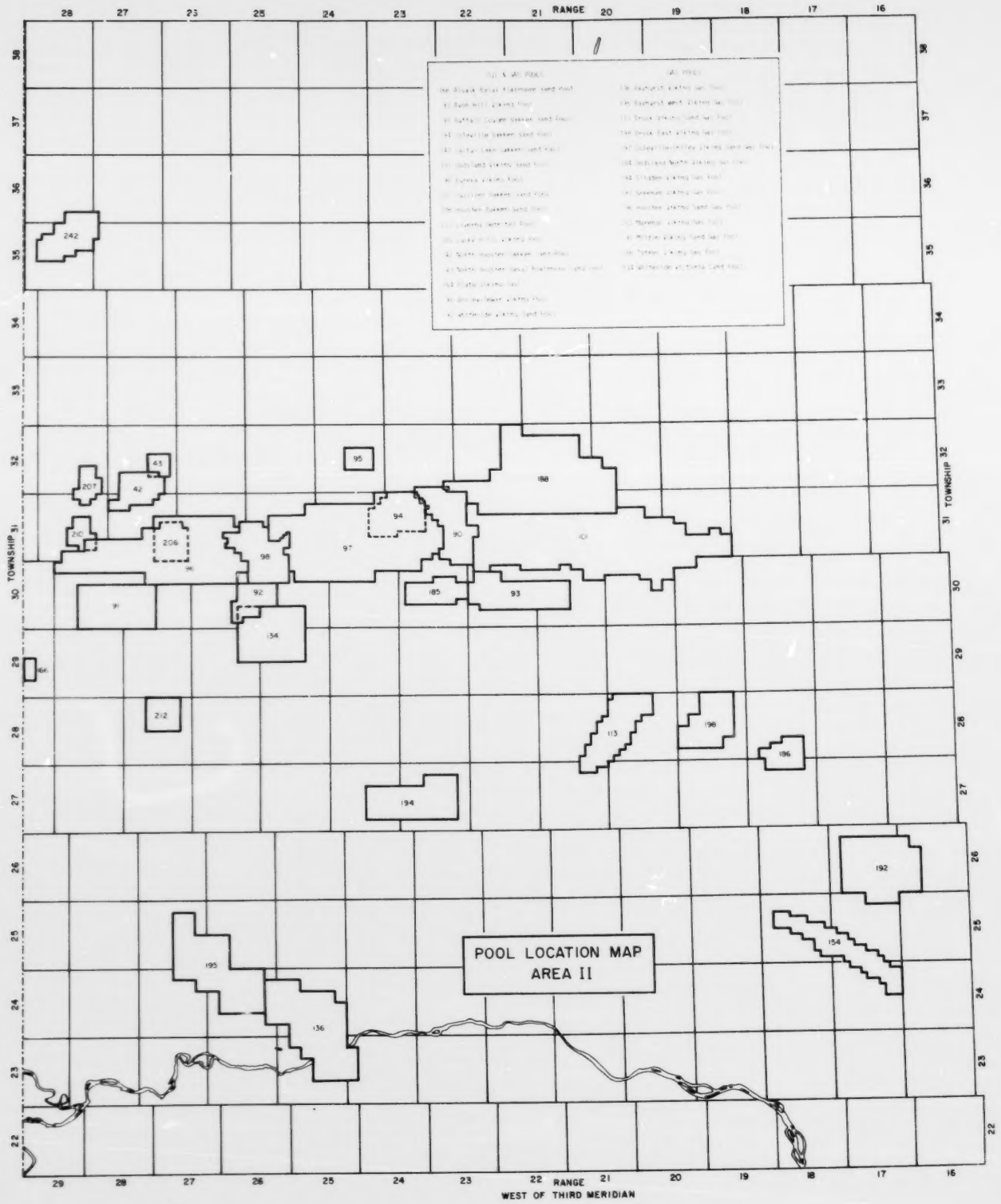
SASKATCHEWAN
PETROLEUM AND NATURAL GAS

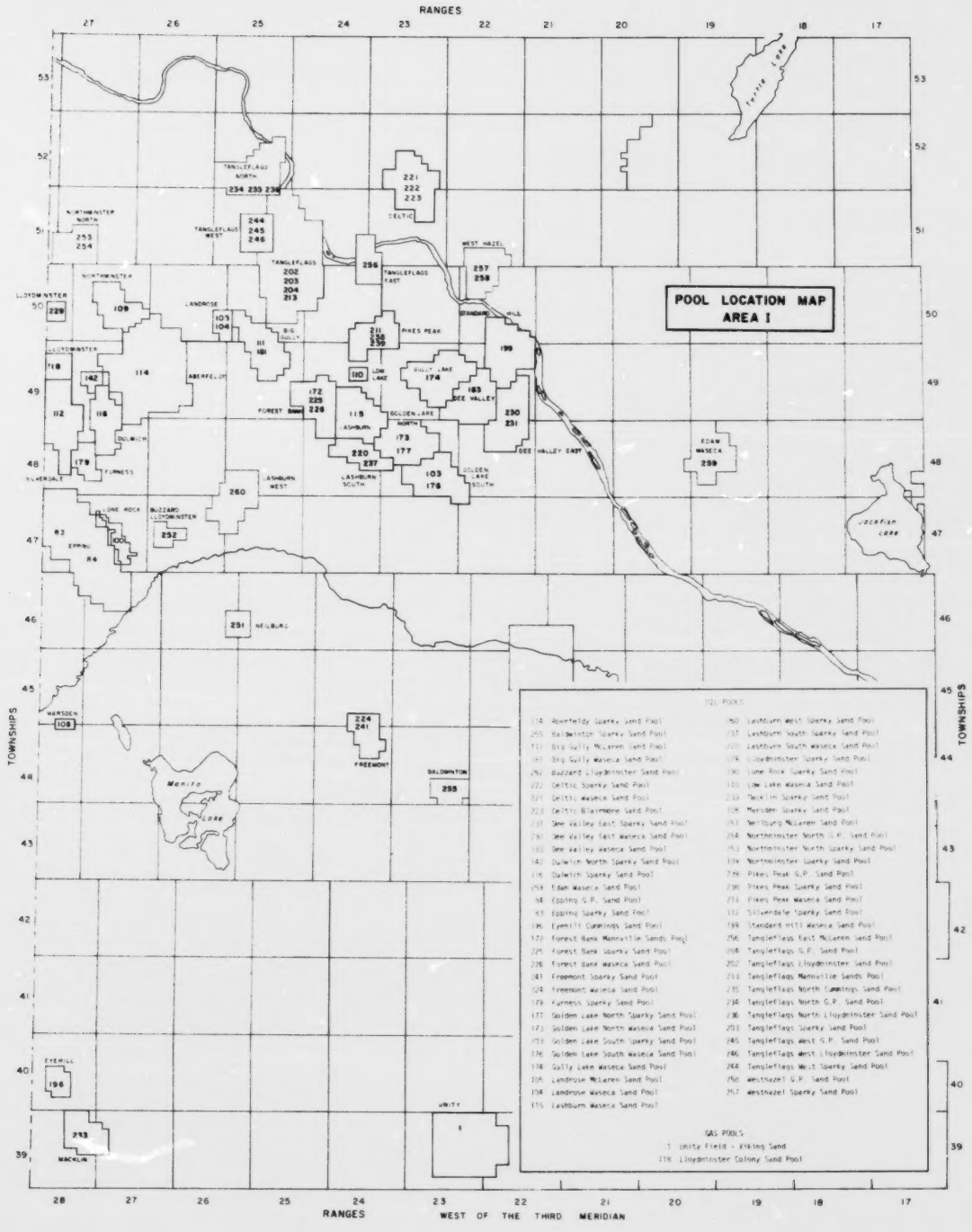
PRODUCTION AND DISPOSITION AREAS

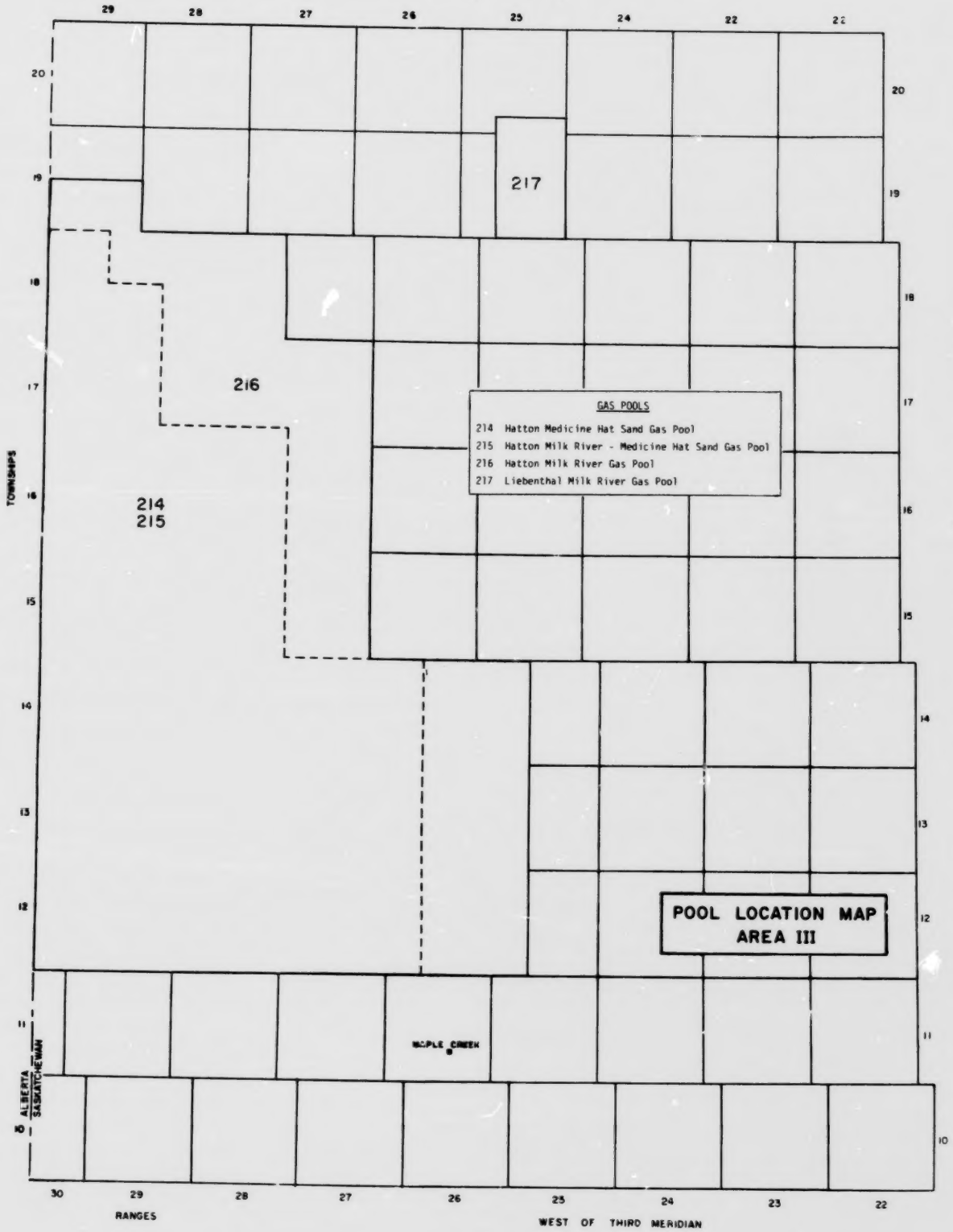




POOL LOCATION MAP
AREA I


RANGE
TOWNSHIP 31
TOWNSHIP 32
RANGE
WEST OF THIRD MERIDIAN
POOL LOCATION MAP
AREA II


RANGES
27 26 25 24 23 22 21 20 19 18 17
TOWNSHIPS
53 52 51 50 49 48 47 46 45 44 43 42 41 40 39
POOL LOCATION MAP
AREA I
OIL POOLS
114 Aberfeldy Sparky Sand Pool
255 Baldwinton Sparky Sand Pool
111 Big Gully McLaren Sand Pool
181 Big Gully Waseca Sand Pool
252 Buzzard Lloydminster Sand Pool
222 Celtic Sparky Sand Pool
221 Celtic Waseca Sand Pool
223 Celtic Blairmore Sand Pool
231 Dee Valley East Sparky Sand Pool
230 Dee Valley East Waseca Sand Pool
183 Dee Valley Waseca Sand Pool
142 Dulwich North Sparky Sand Pool
118 Dulwich Sparky Sand Pool
259 Edam Waseca Sand Pool
68 Epping G.P. Sand Pool
83 Epping Sparky Sand Pool
196 Eyehill Cummings Sand Pool
172 Forest Bank Mannville Sands Pool
225 Forest Bank Sparky Sand Pool
226 Forest Bank Waseca Sand Pool
241 Freemont Sparky Sand Pool
224 Freemont Waseca Sand Pool
179 Furness Sparky Sand Pool
177 Golden Lake North Sparky Sand Pool
175 Golden Lake North Waseca Sand Pool
176 Golden Lake South Sparky Sand Pool
178 Golden Lake South Waseca Sand Pool
174 Gully Lake Waseca Sand Pool
104 Landrose McLaren Sand Pool
105 Landrose Waseca Sand Pool
115 Lashburn Waseca Sand Pool
260 Lashburn West Sparky Sand Pool
237 Lashburn South Sparky Sand Pool
220 Lashburn South Waseca Sand Pool
109 Lloydminster Sparky Sand Pool
106 Lone Rock Sparky Sand Pool
110 Low Lake Waseca Sand Pool
233 Macklin Sparky Sand Pool
108 Marsden Sparky Sand Pool
251 Neilburg McLaren Sand Pool
254 Northminster North G.P. Sand Pool
253 Northminster North Sparky Sand Pool
107 Northminster Sparky Sand Pool
229 Pikes Peak G.P. Sand Pool
228 Pikes Peak Sparky Sand Pool
211 Pikes Peak Waseca Sand Pool
117 Silverdale Sparky Sand Pool
199 Standard Hill Waseca Sand Pool
256 Tangleflags East McLaren Sand Pool
208 Tangleflags G.P. Sand Pool
202 Tangleflags Lloydminster Sand Pool
213 Tangleflags Mannville Sands Pool
235 Tangleflags North Cummings Sand Pool
234 Tangleflags North G.P. Sand Pool
236 Tangleflags North Lloydminster Sand Pool
203 Tangleflags Sparky Sand Pool
245 Tangleflags West G.P. Sand Pool
246 Tangleflags West Lloydminster Sand Pool
244 Tangleflags West Sparky Sand Pool
250 Westhazel G.P. Sand Pool
257 Westhazel Sparky Sand Pool
GAS POOLS
1 Unity Field - Viking Sand
119 Lloydminster Colony Sand Pool
RANGES
WEST OF THE THIRD MERIDIAN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16
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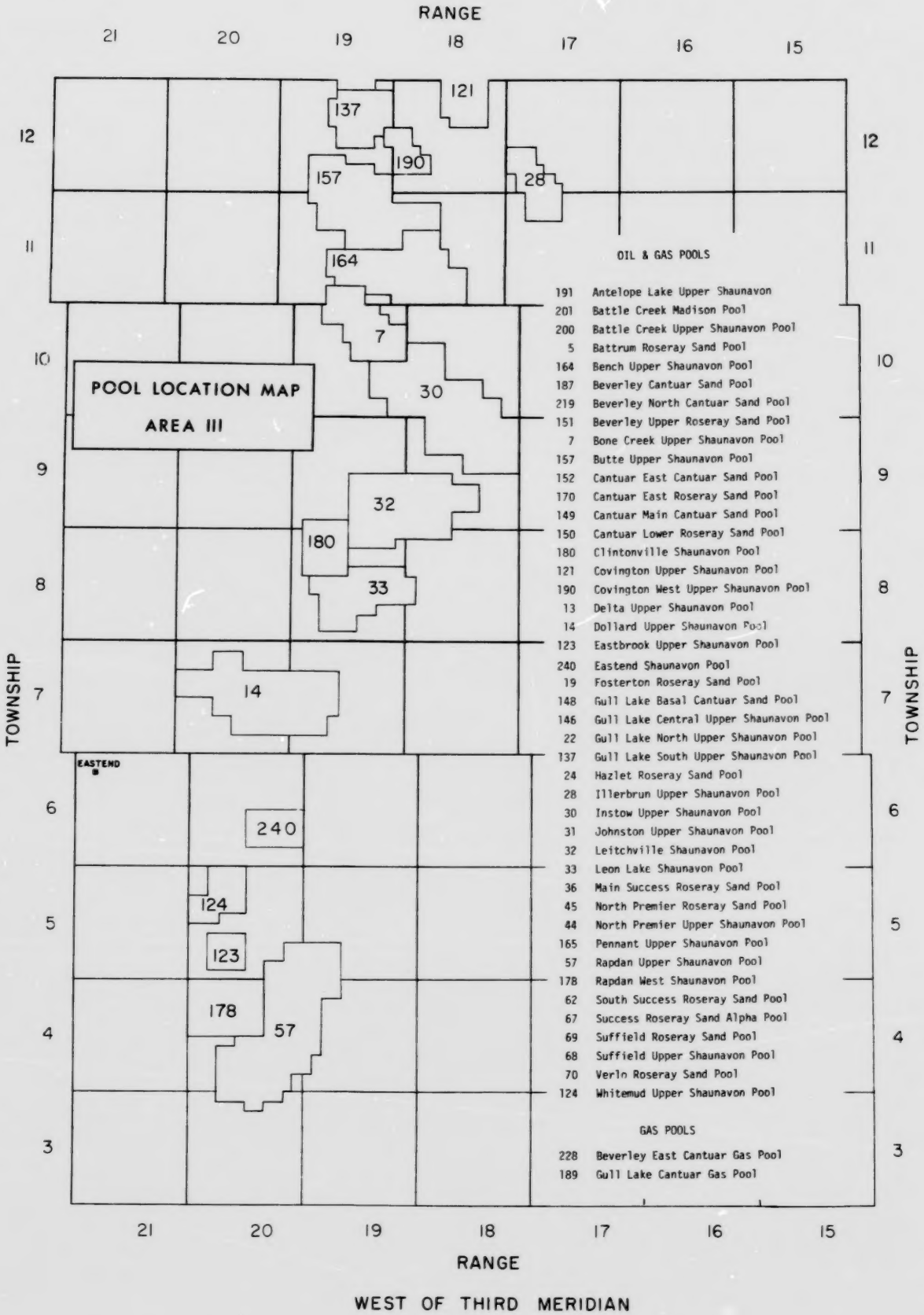
14
13
12
11
10
TOWNSHIPS
217
216
214
215
GAS POOLS
214 Hatton Medicine Hat Sand Gas Pool
215 Hatton Milk River - Medicine Hat Sand Gas Pool
216 Hatton Milk River Gas Pool
217 Liebenthal Milk River Gas Pool
POOL LOCATION MAP
AREA III
MAPLE CREEK
ALBERTA
SASKATCHEWAN
30
29
28
27
26
25
24
23
22
RANGES
WEST OF THIRD MERIDIAN


RANGE
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18
17
16
15
TOWNSHIP
12
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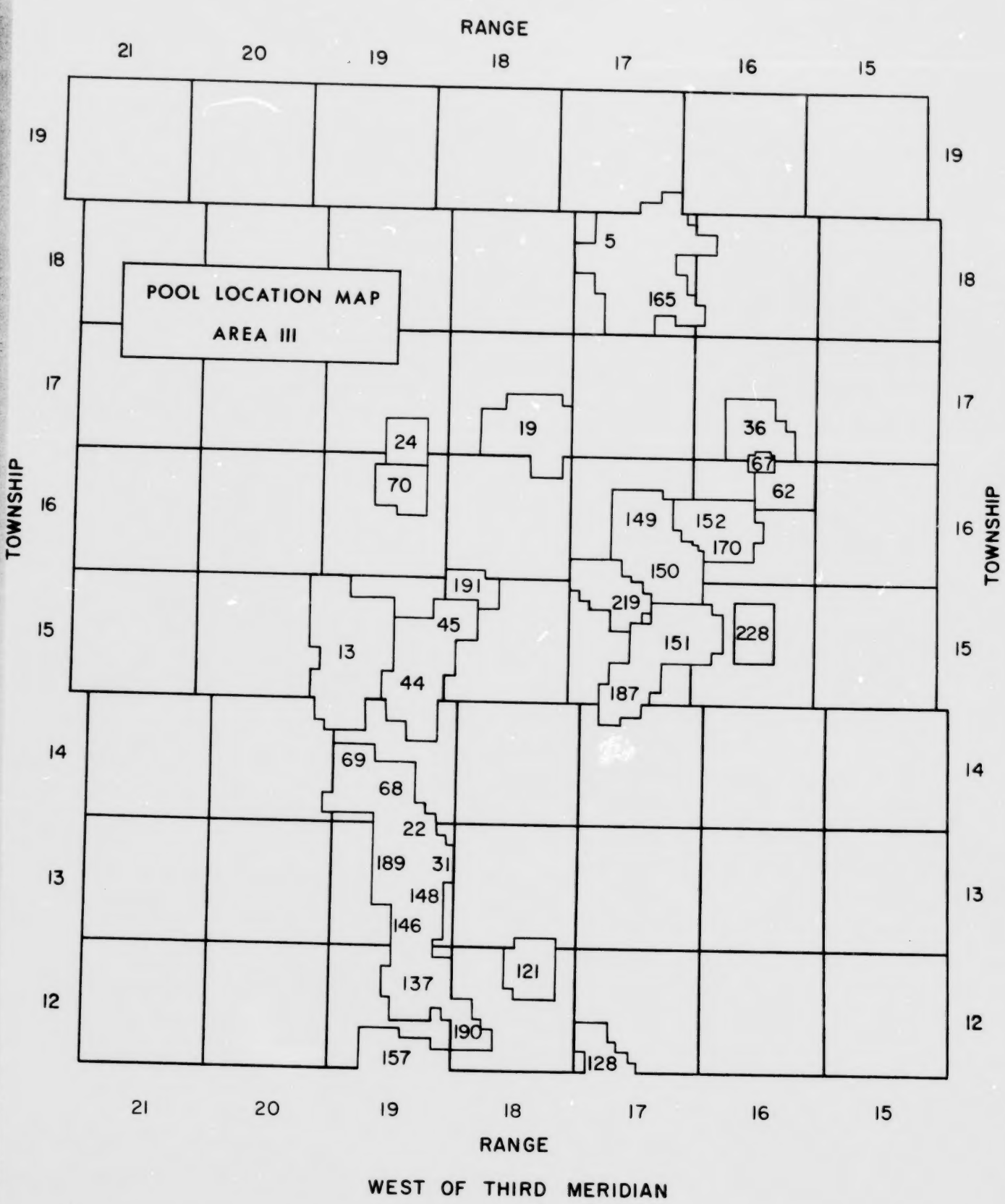
3
POOL LOCATION MAP
AREA III
EASTEND
137
121
190
157
28
164
7
30
32
180
33
14
240
124
123
178
57
OIL & GAS POOLS
191 Antelope Lake Upper Shaunavon
201 Battle Creek Madison Pool
200 Battle Creek Upper Shaunavon Pool
5 Battrum Roseray Sand Pool
164 Bench Upper Shaunavon Pool
187 Beverley Cantuar Sand Pool
219 Beverley North Cantuar Sand Pool
151 Beverley Upper Roseray Sand Pool
7 Bone Creek Upper Shaunavon Pool
157 Butte Upper Shaunavon Pool
152 Cantuar East Cantuar Sand Pool
170 Cantuar East Roseray Sand Pool
149 Cantuar Main Cantuar Sand Pool
150 Cantuar Lower Roseray Sand Pool
180 Clintonville Shaunavon Pool
121 Covington Upper Shaunavon Pool
190 Covington West Upper Shaunavon Pool
13 Delta Upper Shaunavon Pool
14 Dollard Upper Shaunavon Pool
123 Eastbrook Upper Shaunavon Pool
240 Eastend Shaunavon Pool
19 Fosterton Roseray Sand Pool
148 Gull Lake Basal Cantuar Sand Pool
146 Gull Lake Central Upper Shaunavon Pool
22 Gull Lake North Upper Shaunavon Pool
137 Gull Lake South Upper Shaunavon Pool
24 Hazlet Roseray Sand Pool
28 Illerbrun Upper Shaunavon Pool
30 Instow Upper Shaunavon Pool
31 Johnston Upper Shaunavon Pool
32 Leitchville Shaunavon Pool
33 Leon Lake Shaunavon Pool
36 Main Success Roseray Sand Pool
45 North Premier Roseray Sand Pool
44 North Premier Upper Shaunavon Pool
165 Pennant Upper Shaunavon Pool
57 Rapdan Upper Shaunavon Pool
178 Rapdan West Shaunavon Pool
62 South Success Roseray Sand Pool
67 Success Roseray Sand Alpha Pool
69 Suffield Roseray Sand Pool
68 Suffield Upper Shaunavon Pool
70 Verlo Roseray Sand Pool
124 Whitemud Upper Shaunavon Pool
GAS POOLS
228 Beverley East Cantuar Gas Pool
189 Gull Lake Cantuar Gas Pool
RANGE
WEST OF THIRD MERIDIAN


RANGE
21
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TOWNSHIP
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12
POOL LOCATION MAP
AREA III
5
165
24
70
19
36
67
62
149
152
170
150
191
219
45
13
44
228
151
187
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121
137
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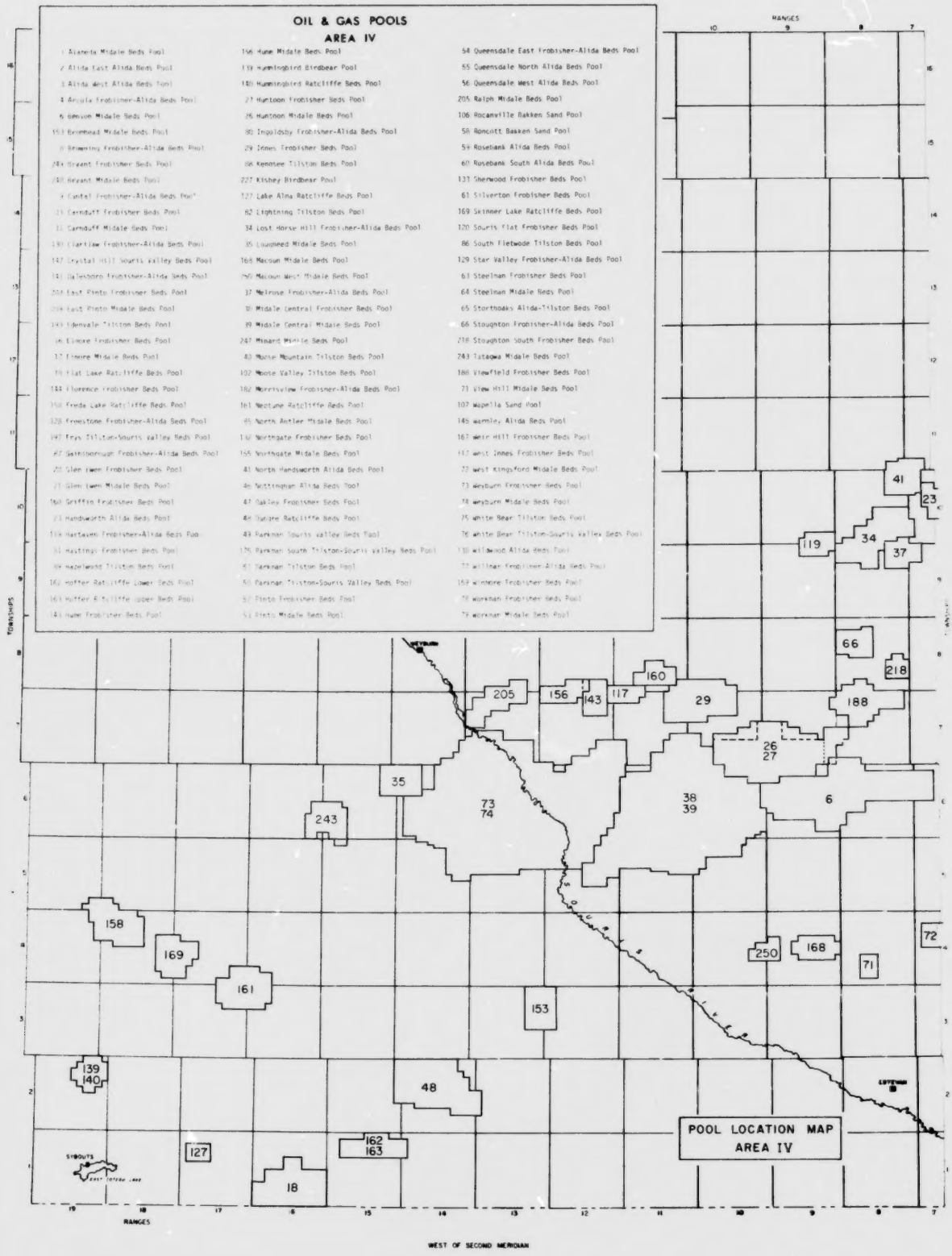
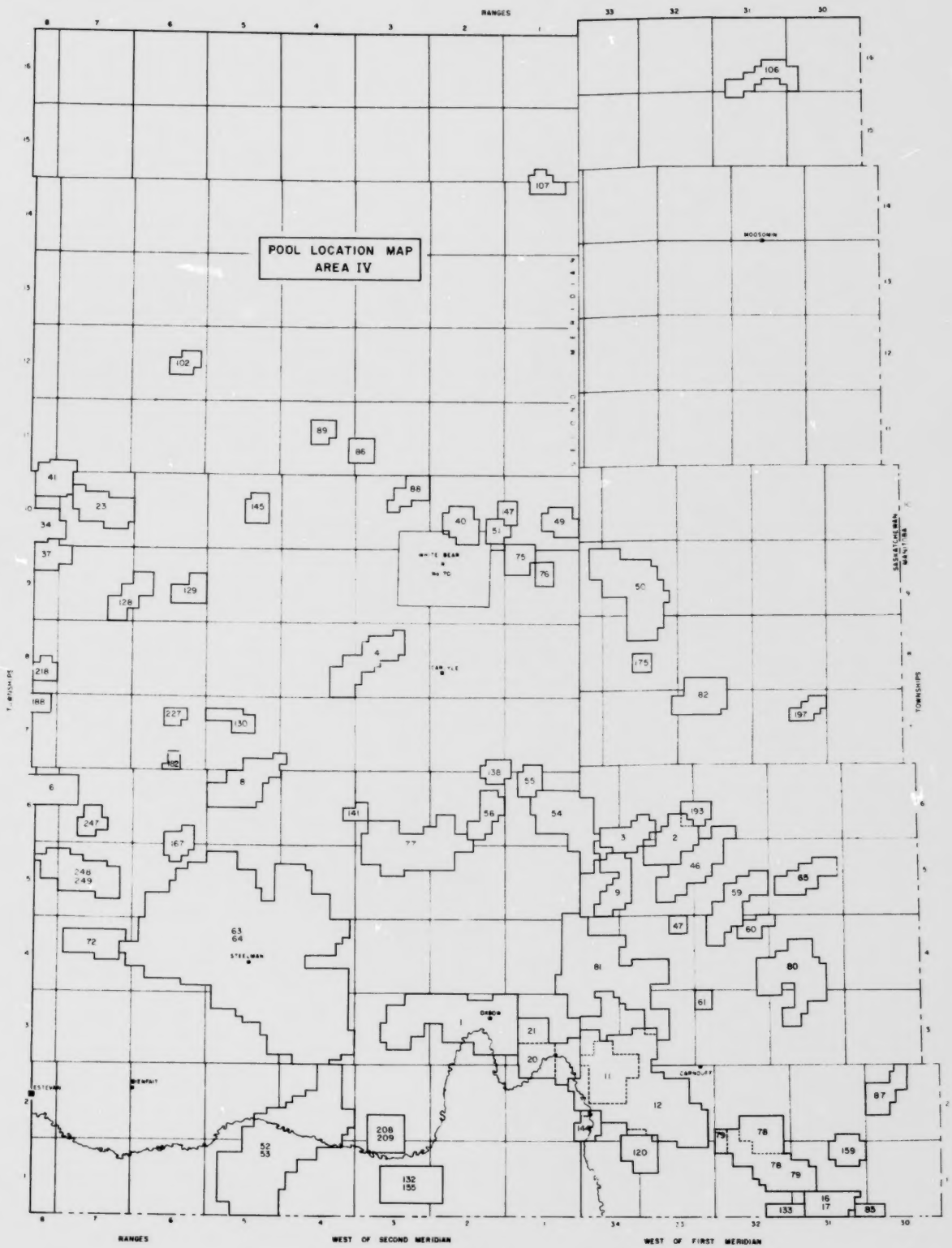
157
128
WEST OF THIRD MERIDIAN


OIL & GAS POOLS
AREA IV
1 Alameda Midale Beds Pool
2 Alida East Alida Beds Pool
3 Alida West Alida Beds Pool
4 Argyle Frobisher-Alida Beds Pool
6 Benson Midale Beds Pool
153 Brenhead Midale Beds Pool
8 Browning Frobisher-Alida Beds Pool
244 Bryant Frobisher Beds Pool
248 Bryant Midale Beds Pool
9 Cantel Frobisher-Alida Beds Pool
11 Carnduff Frobisher Beds Pool
12 Carnduff Midale Beds Pool
180 Clartlaw Frobisher-Alida Beds Pool
147 Crystal Hill Souris Valley Beds Pool
13 Dalewood Frobisher-Alida Beds Pool
204 East Pinto Frobisher Beds Pool
214 East Pinto Midale Beds Pool
143 Edenvale Tilston Beds Pool
16 Elmore Frobisher Beds Pool
17 Elmore Midale Beds Pool
19 Flat Lake Ratcliffe Beds Pool
188 Florence Frobisher Beds Pool
158 Freda Lake Ratcliffe Beds Pool
128 Freestone Frobisher-Alida Beds Pool
147 Frys Tilston-Souris Valley Beds Pool
47 Gainsborough Frobisher-Alida Beds Pool
20 Glen Ewen Frobisher Beds Pool
21 Glen Ewen Midale Beds Pool
160 Griffin Frobisher Beds Pool
23 Handsworth Alida Beds Pool
176 Hartaven Frobisher-Alida Beds Pool
31 Hastings Frobisher Beds Pool
89 Hazelwood Tilston Beds Pool
162 Hoffer Ratcliffe Lower Beds Pool
161 Hoffer Ratcliffe Upper Beds Pool
146 Hume Frobisher Beds Pool
156 Hume Midale Beds Pool
159 Hummingbird Birdbear Pool
160 Hummingbird Ratcliffe Beds Pool
27 Huntoon Frobisher Beds Pool
26 Huntoon Midale Beds Pool
30 Ingoldsby Frobisher-Alida Beds Pool
29 Innes Frobisher Beds Pool
86 Kenosee Tilston Beds Pool
227 Kisbey Birdbear Pool
177 Lake Alma Ratcliffe Beds Pool
82 Lightning Tilston Beds Pool
34 Lost Horse Hill Frobisher-Alida Beds Pool
35 Lougheed Midale Beds Pool
168 Macoun Midale Beds Pool
250 Macoun West Midale Beds Pool
37 Melrose Frobisher-Alida Beds Pool
38 Midale Central Frobisher Beds Pool
39 Midale Central Midale Beds Pool
247 Minard Midale Beds Pool
40 Moose Mountain Tilston Beds Pool
102 Moose Valley Tilston Beds Pool
182 Morrisview Frobisher-Alida Beds Pool
161 Neptune Ratcliffe Beds Pool
45 North Antler Midale Beds Pool
132 Northgate Frobisher Beds Pool
155 Northgate Midale Beds Pool
41 North Handsworth Alida Beds Pool
46 Nottingham Alida Beds Pool
47 Oakley Frobisher Beds Pool
48 Ourgre Ratcliffe Beds Pool
49 Parkman Souris Valley Beds Pool
175 Parkman South Tilston-Souris Valley Beds Pool
51 Parkman Tilston Beds Pool
50 Parkman Tilston-Souris Valley Beds Pool
52 Pinto Frobisher Beds Pool
53 Pinto Midale Beds Pool
54 Queensdale East Frobisher-Alida Beds Pool
55 Queensdale North Alida Beds Pool
56 Queensdale West Alida Beds Pool
205 Ralph Midale Beds Pool
106 Rocanville Bakken Sand Pool
58 Roncott Bakken Sand Pool
59 Rosebank Alida Beds Pool
60 Rosebank South Alida Beds Pool
133 Sherwood Frobisher Beds Pool
61 Silverton Frobisher Beds Pool
169 Skinner Lake Ratcliffe Beds Pool
120 Souris Flat Frobisher Beds Pool
86 South Fletwode Tilston Beds Pool
129 Star Valley Frobisher-Alida Beds Pool
63 Steelman Frobisher Beds Pool
64 Steelman Midale Beds Pool
65 Storthoaks Alida-Tilston Beds Pool
66 Stoughton Frobisher-Alida Beds Pool
218 Stoughton South Frobisher Beds Pool
243 Tatagwa Midale Beds Pool
188 Viewfield Frobisher Beds Pool
71 View Hill Midale Beds Pool
107 Wapella Sand Pool
145 Warmle, Alida Beds Pool
167 Weir Hill Frobisher Beds Pool
117 West Innes Frobisher Beds Pool
72 West Kingsford Midale Beds Pool
73 Weyburn Frobisher Beds Pool
74 Weyburn Midale Beds Pool
75 White Bear Tilston Beds Pool
76 White Bear Tilston-Souris Valley Beds Pool
130 Wildwood Alida Beds Pool
77 Willmar Frobisher-Alida Beds Pool
162 Winmore Frobisher Beds Pool
78 Workman Frobisher Beds Pool
79 Workman Midale Beds Pool
RANGES
TOWNSHIPS
WEYBURN
ESTEVAN
SOURIS RIVER
STOUGHTON
EAST TOTOSH LAKE
POOL LOCATION MAP
AREA IV
WEST OF SECOND MERIDIAN


POOL LOCATION MAP
AREA IV
RANGES
WEST OF SECOND MERIDIAN
WEST OF FIRST MERIDIAN
TOWNSHIPS
SASKATCHEWAN
MANITOBA
MOOSOMIN
WHITE BEAR
CARLYLE
STEELMAN
OXBOW
CARNDUFF
ESTEVAN
BIENFAIT

RESERVOIR DATA

RESERVES AND

PRODUCTION — OIL

FIVE YEAR OIL SUMMARY

	1977	1978	1979	1980	1981
	INITIAL RECOVERABLE RESERVES (Million Cubic Metres)				
Area I - Heavy	30.619	42.998	46.684	48.351	49.697
Area II - Heavy	9.392	10.153	10.509	11.970	14.009
Area II - Light	14.691	15.140	15.695	16.513	16.732
Area III - Medium	86.364	87.559	87.330	88.345	88.486
Area IV - Medium	99.634	100.645	100.883	102.713	102.606
Area IV - Light	107.891	108.642	109.984	111.379	111.729
PROVINCIAL TOTAL	348.591	365.137	371.085	379.271	383.259
	REMAINING RECOVERABLE RESERVES (Million Cubic Metres)				
Area I - Heavy	11.550	22.289	24.101	23.774	23.073
Area II - Heavy	3.126	3.530	3.540	4.612	6.082
Area II - Light	5.250	5.285	5.412	5.737	5.466
Area III - Medium	23.009	21.779	19.359	18.406	17.225
Area IV - Medium	33.467	32.184	30.209	29.808	28.095
Area IV - Light	25.233	23.507	22.530	21.677	20.644
PROVINCIAL TOTAL	101.635	108.574	105.151	104.014	100.585
	YEARLY PRODUCTION (Million Cubic Metres)				
Area I - Heavy	1.515	1.640	1.878	1.989	2.039
Area II - Heavy	0.332	0.357	0.346	0.391	0.565
Area II - Light	0.410	0.414	0.428	0.492	0.490
Area III - Medium	2.370	2.430	2.192	1.973	1.310
Area IV - Medium	2.426	2.298	2.210	2.231	1.611
Area IV - Light	2.689	2.485	2.315	2.254	1.377
PROVINCIAL TOTAL	9.742	9.624	9.369	9.330	7.392
	NUMBER OF PRODUCING WELLS				
Area I - Heavy	1,440	1,781	2,309	2,285	2,206
Area II - Heavy	286	300	353	388	540
Area II - Light	744	819	917	1,128	1,178
Area III - Medium	863	881	918	929	903
Area IV - Medium	1,504	1,527	1,540	1,576	1,519
Area IV - Light	2,010	2,018	2,038	2,048	1,564
PROVINCIAL TOTAL	6,847	7,326	8,075	8,354	7,910
	AVERAGE DAILY PRODUCTION (Cubic Metres Per Day)				
Area I - Heavy	4 150	4 492	5 606	5 679	5 525
Area II - Heavy	910	979	1 027	1 165	1 670
Area II - Light	1 122	1 133	1 312	1 454	1 334
Area III - Medium	6 494	6 660	6 049	5 470	4 390
Area IV - Medium	6 648	6 296	6 075	5 974	5 542
Area IV - Light	7 364	6 809	6 384	6 161	3 019
PROVINCIAL TOTAL	26 688	25 369	26 453	25 903	21 480

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POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY PER CENT	ENHANCED PER CENT	TOTAL PER CENT	INITIAL RESERVES PRIMARY M3 X 1 000 000	ENHANCED M3 X 1 000 000	TOTAL M3 X 1 000 000	CUMULATIVE PRODUCTION Dec. 31/81 M3 X 1 000 000	REMAINING RESERVES M3 X 1 000 000	1981 PRODUCTION YEARLY TOTAL M3X1 000	1981 PRODUCTION DAILY AVERAGE M3/DAY
AREA 1 - HEAVY											
ABERFELDY											
SPARKY SAND (UNIT)	53.484	5.30	5.40	10.70	2.835	2.888	5.723	4.298	1.425	163.035	448.5
SPARKY SAND (S. ABFDY SPKY VOL UNIT)	23.573	4.80	1.80	6.60	1.132	0.424	1.556	1.323	0.233	34.655	94.0
SPARKY SAND (NON-UNIT)	8.811	4.30	0.0	4.30	0.379	0.0	0.379	0.197	0.182	22.784	65.0
BALDWINTON											
SPARKY SAND	1.782	4.00	0.0	4.00	0.071	0.0	0.071	0.026	0.045	7.099	16.0
BIG GULLY											
MCLAREN SAND (VOLUNTARY UNIT NO.1)	9.843	5.00	2.30	7.30	0.492	0.226	0.718	0.637	0.174	28.854	96.1
WASECA SAND (VOLUNTARY UNIT NO. 1)	2.302	2.50	1.50	4.00	0.058	0.035	0.093				
MCLAREN SAND (NON-UNIT)	0.680	4.00	0.0	4.00	0.027	0.0	0.027	0.021	0.006	1.003	2.1
WASECA SAND (NON-UNIT)	0.350	3.50	0.0	3.50	0.012	0.0	0.012	0.010	0.002	0.0	0.0
BUZZARD											
LLOYDMINSTER SAND	2.035	5.50	0.0	5.50	0.112	0.0	0.112	0.018	0.094	11.203	28.4
CELTIC											
SPARKY SAND	9.762	3.00	0.0	3.00	0.293	0.0	0.293	0.038		5.178	12.6
WASECA SAND	10.472	4.00	3.30	7.30	0.419	0.346	0.765	0.051	0.953	8.249	19.8
BLAIRMORE SANDS (COMMINGLED)								0.016		1.828	2.6
DEE VALLEY											
WASECA SAND	20.974	3.50	0.0	3.50	0.734	0.0	0.734	0.142	0.592	29.976	85.4
DEE VALLEY EAST											
SPARKY SAND	6.079	2.00	0.0	2.00	0.122	0.0	0.122	0.011	0.111	2.283	4.8
WASECA SAND	4.468	4.00	0.0	4.00	0.179	0.0	0.179	0.024	0.155	5.455	14.8
DULWICH											
SPARKY SAND	15.385	8.00	4.20	12.20	1.231	0.646	1.877	1.547	0.330	20.400	39.5
DULWICH NORTH											
SPARKY SAND (N. DULWICH VOL UNIT)	1.152	5.50	14.00	19.50	0.063	0.161	0.224	0.193	0.031	4.709	13.5
SPARKY SAND (NON-UNIT)	0.033	1.60	0.0	1.60	0.001	0.0	0.001	0.001	0.0	0.0	0.0
EDAM											
WASECA SAND	3.154	3.30	0.0	3.30	0.104	0.0	0.104	0.013	0.09[illegible]	8.102	22.0
EPPING											
G.P. SAND (S. EPPING UNIT)	4.305	3.00	1.40	4.40	0.129	0.060	0.189	2.245	0.573	69.999	190.4
SPARKY SAND (S. EPPING UNIT)	23.892	5.00	6.00	11.00	1.195	1.434	2.629				
SPARKY SAND (SW EPPING VOL UNIT 1)	10.764	5.40	4.60	10.00	0.581	0.495	1.076	0.699	0.377	39.819	119.7
G.P. SAND (NON-UNIT)	12.119	3.50	0.0	3.50	0.424	0.0	0.424	0.343	0.081	8.074	21.7
SPARKY SAND (NON-UNIT)	33.065	5.30	0.0	5.30	1.752	0.0	1.752	1.358	0.394	55.159	132.5
EYEBELL											
CUMMINGS SAND	7.468	1.00	13.40	14.40	0.075	1.001	1.076	0.041	1.035	7.309	32.3
FOREST BANK											
SPARKY SAND	9.996	4.40	0.0	4.40	0.440	0.0	0.440	0.095		11.823	36.6
WASECA SAND	7.756	4.00	0.0	4.00	0.310	0.0	0.310	0.113	0.505	9.022	23.4
MANNVILLE SANDS (COMMINGLED)								0.037		3.394	7.9
FREEMONT											
SPARKY SAND	2.560	6.00	0.0	6.00	0.154	0.0	0.154	0.041	0.113	12.812	35.7
WASECA SAND	3.189	7.50	0.0	7.50	0.239	0.0	0.239	0.109	0.130	18.141	35.6
FURNESS											
SPARKY SAND	8.981	5.00	0.0	5.00	0.449	0.0	0.449	0.310	0.139	17.636	33.5
GOLDEN LAKE NORTH											
SPARKY SAND (GOLDEN LAKE VOL UNIT)	9.245	3.00	0.80	3.80	0.277	0.074	0.351	1.293	0.429	62.374	145.9
WASECA SAND (GOLDEN LAKE VOL UNIT)	14.279	6.00	3.60	9.60	0.857	0.514	1.371				
SPARKY SAND (NON-UNIT)	3.583	3.70	0.0	3.70	0.133	0.0	0.133	0.059	0.074	11.753	33.3
WASECA SAND (NON-UNIT)	5.823	5.90	1.00	6.90	0.344	0.058	0.402	0.267	0.135	19.206	49.8
GOLDEN LAKE SOUTH											
SPARKY SAND	16.026	3.50	3.10	6.60	0.561	0.497	1.058	0.408	0.650	50.208	116.9
WASECA SAND	21.567	8.00	1.00	9.00	1.725	0.216	1.941	1.079	0.862	101.889	262.6
GULLY LAKE											
WASECA SAND (VOLUNTARY UNIT NO. 1)	10.975	3.80	3.50	7.30	0.417	0.384	0.801	0.532	0.269	36.444	104.7
WASECA SAND (NON-UNIT)	13.453	6.30	0.0	6.30	0.848	0.0	0.848	0.425	0.423	61.305	198.2

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL / PRODUCING HORIZON
										AREA 1 - HEAVY
										ABERFELDY
0.299	4.047	4.42	35.0	13.0	1.017	951	535	CRETACEOUS	1956	SPARKY SAND (UNIT)
0.299	1.522	5.18	35.0	13.0	1.017	--	-	--	--	SPARKY SAND (S. ABEDY SPKY VOL UNIT)
0.299	0.517	5.70	35.0	13.0	1.017	--	--	--	--	SPARKY SAND (NON-UNIT)
										BALDWINTON
0.157	0.227	5.00	25.0	30.0	1.111	961	599	CRETACEOUS	1969	SPARKY SAND
										BIG GULLY
0.299	1.101	2.99	36.0	15.3	1.018	970	496	CRETACEOUS	1962	MCLAREN SAND (VOLUNTARY UNIT NO.1)
0.299	0.308	2.50	36.0	15.3	1.018	970	479	CRETACEOUS	1962	WASECA SAND (VOLUNTARY UNIT NO. 1)
0.299	0.065	3.50	36.0	15.3	1.018	970	496	CRETACEOUS	1962	MCLAREN SAND (NON-UNIT)
0.299	0.016	7.32	36.0	15.3	1.018	--	479	--	--	WASECA SAND (NON-UNIT)
										BUZZARD
0.157	0.324	4.00	25.0	30.0	1.111	969	579	CRETACEOUS	1978	LLOYDMINSTER SAND
										CELTIC
0.264	0.539	6.86	35.0	24.0	1.008	984	463	CRETACEOUS	1968	SPARKY SAND
0.264	0.531	7.47	35.0	24.0	1.008	984	451	CRETACEOUS	1968	WASECA SAND
0.0	0.0	0.0	0.0	0.0	0.0	00	--	CRETACEOUS	--	BLAIRMORE SANDS (COMMINGLED)
										DEE VALLEY
0.290	1.375	5.26	35.0	16.0	1.015	970	460	CRETACEOUS	1967	WASECA SAND
										DEE VALLEY EAST
0.290	0.434	4.83	35.0	16.0	1.015	970	490	CRETACEOUS	1974	SPARKY SAND
0.290	0.394	3.91	35.0	16.0	1.015	970	464	CRETACEOUS	1974	WASECA SAND
										DULWICH
0.259	1.910	3.11	34.0	15.0	1.116	970	556	CRETACEOUS	1948	SPARKY SAND
										DULWICH NORTH
0.300	0.097	3.96	35.0	13.0	1.016	957	551	CRETACEOUS	1954	SPARKY SAND (N. DULWICH VOL UNIT)
0.300	0.004	2.74	35.0	13.0	1.016	--	--	--	--	SPARKY SAND (NON-UNIT)
										EDAM
0.157	0.372	5.40	25.0	30.0	1.111	992	431	CRETACEOUS	1972	WASECA SAND
										EPPING
0.281	1.473	1.04	35.0	18.0	1.020	964	583	CRETACEOUS	1944	G.P. SAND (S. EPPING UNIT)
0.281	1.651	5.15	35.0	18.0	1.020	964	563	CRETACEOUS	1944	SPARKY SAND (S. EPPING UNIT)
0.281	0.923	4.15	35.0	18.0	1.020	--	--	--	--	SPARKY SAND (SW EPPING VOL UNIT 1)
0.281	1.198	3.60	35.0	18.0	1.020	--	--	--	--	G.P. SAND (NON-UNIT)
0.281	2.558	4.60	35.0	18.0	1.020	--	--	--	--	SPARKY SAND (NON-UNIT)
										EYEHILL
0.277	0.442	6.10	34.0	16.0	1.031	970	746	CRETACEOUS	1971	CUMMINGS SAND
										FOREST BANK
0.290	0.766	4.50	35.0	16.0	1.015	980	519	CRETACEOUS	1961	SPARKY SAND
0.290	0.849	3.15	35.0	16.0	1.015	964	524	CRETACEOUS	1963	WASECA SAND
0.157	0.097	3.80	25.0	30.0	1.111	--	--	--	--	MANNVILLE SANDS (COMMINGLED)
										FREEMONT
0.266	0.275	3.50	35.0	20.0	1.053	953	636	CRETACEOUS	1977	SPARKY SAND
0.266	0.324	3.70	35.0	20.0	1.053	953	620	CRETACEOUS	1977	WASECA SAND
										FURNESS
0.284	0.550	5.75	34.0	15.0	1.017	964	566	CRETACEOUS	1970	SPARKY SAND
										GOLDEN LAKE NORTH
0.277	0.890	3.75	35.0	20.0	1.009	977	506	CRETACEOUS	1964	SPARKY SAND (GOLDEN LAKE VOL UNIT)
0.290	1.198	4.11	35.0	16.0	1.015	964	481	CRETACEOUS	1964	WASECA SAND (GOLDEN LAKE VOL UNIT)
0.277	0.308	4.20	35.0	20.0	1.009	--	--	--	--	SPARKY SAND (NON-UNIT)
0.290	0.502	4.00	35.0	16.0	1.015	22	--	--	--	WASECA SAND (NON-UNIT)
										GOLDEN LAKE SOUTH
0.284	0.805	7.01	35.0	18.0	1.012	977	490	CRETACEOUS	1964	SPARKY SAND
0.290	1.878	3.96	35.0	16.0	1.015	957	473	CRETACEOUS	1964	WASECA SAND
										GULLY LAKE
0.290	0.874	4.33	35.7	16.0	1.033	964	472	CRETACEOUS	1966	WASECA SAND (VOLUNTARY UNIT NO. 1)
0.290	0.987	4.70	35.7	16.0	1.033	--	--	--	--	WASECA SAND (NON-UNIT)

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
		PER CENT			M3 X 1 000 000						
LANDROSE											
MCLAREN SAND	2.851	2.90	0.0	2.90	0.083	0.0	0.083	0.080	0.003	0.0	0.0
WASECA SAND	2.765	4.50	0.0	4.50	0.124	0.0	0.124	0.109	0.015	1.524	3.2
LASHBURN											
WASECA SAND (LASH. WASECA VOL UNIT)	18.068	1.50	3.00	4.50	0.271	0.542	0.813	0.666	0.147	8.744	34.8
WASECA SAND (NON-UNIT)	4.673	3.20	0.0	3.20	0.150	0.0	0.150	0.106	0.044	7.009	19.9
LASHBURN SOUTH											
SPARKY SAND	1.898	2.00	0.0	2.00	0.038	0.0	0.038	0.014	0.024	2.887	7.8
WASECA SAND	7.256	2.90	0.0	2.90	0.210	0.0	0.210	0.083	0.127	14.761	46.1
LASHBURN WEST											
SPARKY SAND	3.411	3.00	0.0	3.00	0.102	0.0	0.102	0.011	0.091	7.548	11.6
LLOYDMINSTER											
SPARKY SAND	3.300	5.60	0.0	5.60	0.185	0.0	0.185	0.096	0.089	13.524	42.2
LONE ROCK											
SPARKY SAND	13.946	7.50	1.50	9.00	1.046	0.209	1.255	1.161	0.094	14.332	36.9
LOW LAKE											
WASECA SAND	1.209	4.80	0.0	4.80	0.058	0.0	0.058	0.047	0.011	1.622	3.9
MACKLIN											
SPARKY SAND	12.095	6.00	0.0	6.00	0.726	0.0	0.726	0.180	0.546	72.304	172.9
MARSDEN											
SPARKY SAND	1.179	7.40	0.0	7.40	0.087	0.0	0.087	0.081	0.006	2.351	7.1
NEILBURG											
MCLAREN SAND	2.282	12.50	0.0	12.50	0.285	0.0	0.285	0.061	0.224	27.957	85.5
NORTHMINSTER											
SPARKY SAND (NORTH. SPARKY VOL UNIT)	10.932	3.50	4.00	7.50	0.383	0.437	0.820	0.669	0.151	24.499	51.1
SPARKY SAND (NON-UNIT)	1.662	3.00	1.20	4.20	0.050	0.020	0.070	0.040	0.030	5.097	19.2
NORTHMINSTER NORTH											
G.P. SAND	0.999	5.00	0.0	5.00	0.050	0.0	0.050	0.006	0.044	2.324	3.4
NORTHMINSTER NORTH											
SPARKY SAND	2.229	8.00	0.0	8.00	0.178	0.0	0.178	0.030	0.148	11.476	20.7
PIKES PEAK											
G.P. SAND	2.914	11.70	0.0	11.70	0.341	0.0	0.341	0.096	0.245	29.365	93.0
SPARKY SAND	1.021	1.50	0.0	1.50	0.015	0.0	0.015	0.004	0.011	0.841	1.3
WASECA SAND	8.702	2.80	10.00	12.80	0.244	0.870	1.114	0.110	1.004	15.562	55.7
SILVERDALE											
SPARKY SAND	17.369	7.00	0.50	7.50	1.216	0.087	1.303	1.147	0.156	14.474	35.2
STANDARD HILL											
WASECA SAND	18.787	7.50	0.0	7.50	1.409	0.0	1.409	0.489	0.920	127.538	342.9
TANGLEFLAGS											
G.P. SAND (VOL UNIT NO. 1)	7.966	6.00	0.0	6.00	0.478	0.0	0.478	0.310	0.293	35.932	93.9
LLOYDMINSTER SAND (VOL UNIT NO. 1)	5.094	5.50	0.0	5.50	0.280	0.0	0.280	0.077		8.930	21.0
MANNVILLE SD (COMMINGLED) (V.U.NO.1)								0.078		5.930	14.6
LLOYDMINSTER SAND (VOL UNIT NO. 2)	3.417	7.00	0.0	7.00	0.239	0.0	0.239	0.164	0.075	15.025	37.4
G.P. SAND (VOL UNIT NO. 3)	4.137	5.80	0.0	5.80	0.240	0.0	0.240	0.054	0.186	16.210	39.1
LLOYDMINSTER SD (VOL UNIT NO. 3)	5.683	5.50	0.0	5.50	0.313	0.0	0.313	0.090	0.223	21.687	58.4
SPARKY SAND (VOL UNIT NO. 3)	0.572	8.00	0.0	8.00	0.046	0.0	0.046	0.010	0.036	4.064	9.1
G.P. SAND (NON-UNIT)	29.421	6.30	0.0	6.30	1.854	0.0	1.854	0.488	3.167	80.712	193.1
LLOYDMINSTER SAND (NON-UNIT)	31.530	5.80	0.0	5.80	1.829	0.0	1.829	0.375		82.922	211.1
SPARKY SAND (NON-UNIT)	9.023	6.30	0.0	6.30	0.568	0.0	0.568	0.105		23.039	68.1
MANNVILLE SD (COMMINGLED) (NON-UNIT)								0.116		10.276	20.2
TANGLEFLAGS EAST											
MCLAREN SAND	1.419	8.50	0.0	8.50	0.121	0.0	0.121	0.021	0.100	9.588	33.8
TANGLEFLAGS NORTH											
CUMMINGS SAND	4.576	3.00	0.0	3.00	0.137	0.0	0.137	0.032	0.105	10.353	24.7
G.P. SAND	2.114	0.80	0.0	0.80	0.017	0.0	0.017	0.004	0.013	0.760	1.1
LLOYDMINSTER SAND	10.608	2.80	0.0	2.80	0.297	0.0	0.297	0.082	0.215	23.527	51.8

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										LANDROSE
0.228	0.202	6.19	30.0	20.0	1.053	964	513	CRETACEOUS	1950	MCLAREN SAND
0.290	0.210	4.54	36.0	18.0	1.017	964	521	CRETACEOUS	1950	WASECA SAND
										LASHBURN
0.230	1.263	6.22	30.0	21.0	1.031	970	518	CRETACEOUS	1960	WASECA SAND (LASH. WASECA VOL UNIT)
0.292	0.291	5.50	35.0	15.0	1.017	--	--	--	--	WASECA SAND (NON-UNIT)
										LASHBURN SOUTH
0.275	0.178	3.87	35.0	20.0	1.017	964	534	CRETACEOUS	1967	SPARKY SAND
0.292	0.502	4.95	35.0	15.0	1.017	964	524	CRETACEOUS	--	WASECA SAND
										LASHBURN WEST
0.157	0.388	5.60	25.0	30.0	1.111	991	537	CRETACEOUS	1979	SPARKY SAND
										LLOYDMINSTER
0.299	0.178	6.20	35.0	13.0	1.017	959	556	CRETACEOUS	1952	SPARKY SAND
										LONE ROCK
0.266	0.955	5.49	33.0	15.0	1.053	964	571	CRETACEOUS	1947	SPARKY SAND
										LOW LAKE
0.248	0.129	3.78	36.0	30.0	1.017	964	509	CRETACEOUS	1950	WASECA SAND
										MACKLIN
0.261	1.226	3.78	35.0	23.0	1.033	946	712	CRETACEOUS	1976	SPARKY SAND
										MARSDEN
0.266	0.097	4.57	35.0	20.0	1.053	964	606	CRETACEOUS	1949	SPARKY SAND
										NEILBURG
0.157	0.352	4.13	25.0	30.0	1.111	966	581	CRETACEOUS	1978	MCLAREN SAND
										NORTHMINSTER
0.284	0.987	3.90	34.0	15.0	1.017	970	541	CRETACEOUS	1959	SPARKY SAND (NORTH. SPARKY VOL UNIT)
0.284	0.113	5.18	34.0	15.0	1.017	--	--	--	--	SPARKY SAND (NON-UNIT)
										NORTHMINSTER NORTH
0.157	0.144	4.42	25.0	30.0	1.111	965	543	CRETACEOUS	1961	G.P. SAND
										NORTHMINSTER NORTH
0.157	0.304	4.67	25.0	30.0	1.111	965	524	--	--	SPARKY SAND
										PIKES PEAK
0.233	0.308	4.06	35.0	30.0	1.053	970	530	CRETACEOUS	1970	G.P. SAND
0.233	0.146	3.00	35.0	30.0	1.053	970	515	CRETACEOUS	--	SPARKY SAND
0.240	0.518	7.00	35.0	30.0	1.020	970	497	CRETACEOUS	1970	WASECA SAND
										SILVERDALE
0.258	1.781	3.78	34.0	20.0	1.053	970	563	CRETACEOUS	1945	SPARKY SAND
										STANDARD HILL
0.281	1.878	3.56	34.0	16.0	1.015	970	472	CRETACEOUS	1963	WASECA SAND
										TANGLEFLAGS
0.268	0.745	3.99	33.3	18.0	1.020	964	492	CRETACEOUS	1969	G.P. SAND (VOL UNIT NO. 1)
0.260	0.745	2.63	32.3	18.0	1.020	957	532	CRETACEOUS	1969	LLOYDMINSTER SAND (VOL UNIT NO. 1)
0.0	0.0	0.0	0.0	0.0	1.000	--	--	CRETACEOUS	--	MANNVILLE SD (COMMINGLED) (V.U.NO.1)
0.232	0.416	3.54	30.0	21.0	1.020	957	532	CRETACEOUS	--	LLOYDMINSTER SAND (VOL UNIT NO. 2)
0.268	0.576	2.68	33.3	18.0	1.020	964	490	CRETACEOUS	--	G.P. SAND (VOL UNIT NO. 3)
0.205	0.880	3.15	30.6	31.6	1.020	957	532	CRETACEOUS	--	LLOYDMINSTER SD (VOL UNIT NO. 3)
0.238	0.074	3.25	35.0	30.0	1.028	970	511	CRETACEOUS	--	SPARKY SAND (VOL UNIT NO. 3)
0.268	1.896	5.79	35.0	22.0	1.020	--	--	--	--	G.P. SAND (NON-UNIT)
0.257	3.352	3.66	35.0	25.0	1.020	--	--	--	--	LLOYDMINSTER SAND (NON-UNIT)
0.238	1.243	3.05	35.0	30.0	1.028	970	511	CRETACEOUS	1969	SPARKY SAND (NON-UNIT)
0.0	0.0	0.0	0.0	0.0	1.000	--	--	--	--	MANNVILLE SD (COMMINGLED) (NON-UNIT)
										TANGLEFLAGS EAST
0.157	0.226	4.00	25.0	30.0	1.111	966	359	CRETACEOUS	1978	MCLAREN SAND
										TANGLEFLAGS NORTH
0.240	0.227	8.40	35.0	30.0	1.020	957	518	CRETACEOUS	1976	CUMMINGS SAND
0.233	0.162	5.60	35.0	30.0	1.053	964	450	CRETACEOUS	--	G.P. SAND
0.240	0.680	6.50	35.0	30.0	1.020	957	515	CRETACEOUS	--	LLOYDMINSTER SAND

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY PER CENT	ENHANCED PER CENT	TOTAL PER CENT	INITIAL RESERVES PRIMARY M3 X 1 000 000	ENHANCED M3 X 1 000 000	TOTAL M3 X 1 000 000	CUMULATIVE PRODUCTION Dec. 31/81 M3 X 1 000 000	REMAINING RESERVES M3 X 1 000 000	1981 PRODUCTION YEARLY TOTAL M3X1 000	1981 PRODUCTION DAILY AVERAGE M3/DAY
TANGLEFLAGS WEST											
G.P. SAND	0.923	1.60	0.0	1.60	0.015	0.0	0.015	0.006	0.009	1.092	1.7
LLOYDMINSTER SAND	3.385	3.40	0.0	3.40	0.115	0.0	0.115	0.032	0.083	10.025	10.2
SPARKY SAND	1.774	4.20	0.0	4.20	0.075	0.0	0.075	0.021	0.054	5.736	6.2
WESTHAZEL											
G.P.SAND	1.302	1.70	0.0	1.70	0.022	0.0	0.022	0.006	0.016	2.126	5.5
SPARKY SAND	4.072	2.50	0.0	2.50	0.102	0.0	0.102	0.038	0.064	9.101	21.9
MISCELLANEOUS											
BASAL MANNVILLE SAND	0.028	2.00	0.0	2.00	0.001	0.0	0.001	0.001	0.0	0.0	0.0
COLONY SAND	2.531	1.40	0.0	1.40	0.035	0.0	0.035	0.009	0.026	2.778	10.7
CUMMINGS SAND	13.121	1.40	0.0	1.40	0.184	0.0	0.184	0.034	0.150	9.929	39.9
DINA SAND	0.690	0.70	0.0	0.70	0.005	0.0	0.005	0.002	0.003	0.067	0.2
G.P. SAND	15.388	3.20	0.0	3.20	0.492	0.0	0.492	0.181	0.311	29.178	86.7
LLOYDMINSTER SAND	13.399	3.00	1.40	4.40	0.402	0.188	0.590	0.084	0.506	36.748	159.7
MANNVILLE SANDS	0.143	4.20	0.0	4.20	0.006	0.0	0.006	0.001	0.005	0.479	2.0
MANNVILLE SANDS (COMMINGLED)	12.938	2.00	0.0	2.00	0.259	0.0	0.259	0.112	0.147	13.512	33.4
MCLAREN (T'FLAGS VOL UNIT NO. 3)	0.212	3.80	0.0	3.80	0.008	0.0	0.008	0.002	0.006	0.483	1.8
MCLAREN SAND	14.483	3.70	0.0	3.70	0.536	0.0	0.536	0.145	0.391	31.481	96.7
REX SAND	2.177	1.50	0.0	1.50	0.033	0.0	0.033	0.020	0.013	1.471	3.1
SPARKY SAND	39.647	5.00	0.0	5.00	1.982	0.0	1.982	0.473	1.509	127.146	364.4
WASECA SAND	21.960	3.50	0.0	3.50	0.769	0.0	0.769	0.145	0.624	51.667	162.8
TOTAL AREA I HEAVY	797.241				37.885	11.812	49.697	26.624	23.073	2038.895	5525.1
AREA II - HEAVY											
ALSASK											
BASAL BLAIRMORE SAND	0.234	5.00	0.0	5.00	0.012	0.0	0.012	0.007	0.005	0.453	1.7
BUFFALO COULEE											
BAKKEN SAND	7.106	4.00	4.00	8.00	0.284	0.284	0.568	0.184	0.384	14.455	47.4
CACTUS LAKE											
BAKKEN SAND	30.202	5.50	0.0	5.50	1.661	0.0	1.661	0.221	1.440	168.702	596.9
COLEVILLE											
BAKKEN SAND	48.522	4.60	11.40	16.00	2.232	5.532	7.764	5.746	2.018	199.117	469.2
FUSILIER											
BAKKEN SAND	3.121	8.50	0.0	8.50	0.265	0.0	0.265	0.095	0.170	11.139	39.8
HOOSIER											
BAKKEN SAND (VOLUNTARY UNIT NO. 1)	3.124	4.00	3.00	7.00	0.125	0.094	0.219	0.084	0.135	7.951	26.2
BAKKEN SAND (NON-UNIT)	5.044	1.80	0.0	1.80	0.091	0.0	0.091	0.044	0.047	3.942	16.8
LOVERNA											
DETRITAL	2.069	4.80	0.0	4.80	0.099	0.0	0.099	0.064	0.035	4.274	9.5
NORTH HOOSIER											
BAKKEN SAND (VOLUNTARY UNIT)	8.611	2.30	10.50	12.80	0.198	0.904	1.102	0.693	0.409	41.992	128.2
BAKKEN SAND (NON-UNIT)	3.269	6.00	0.0	6.00	0.196	0.0	0.196	0.108	0.088	9.610	25.8
NORTH HOOSIER											
BASAL BLAIRMORE SAND (VOL UNIT)	4.164	6.00	9.00	15.00	0.250	0.375	0.625	0.476	0.149	23.393	63.4
MISCELLANEOUS											
BAKKEN SAND	20.725	4.50	0.0	4.50	0.933	0.0	0.933	0.123	0.810	57.688	170.8
BASAL MANNVILLE SAND	1.408	5.30	0.0	5.30	0.075	0.0	0.075	0.012	0.063	7.965	27.5
BIRDBEAR	0.016	3.00	0.0	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0
DETRITAL	1.927	0.90	0.0	0.90	0.017	0.0	0.017	0.012	0.005	0.320	1.7
LLOYDMINSTER SAND	1.293	3.70	0.0	3.70	0.048	0.0	0.048	0.011	0.037	2.827	8.7
MANNVILLE SAND	6.463	5.00	0.0	5.00	0.323	0.0	0.323	0.045	0.278	10.943	35.9
MCLAREN SAND	0.424	2.50	0.0	2.50	0.011	0.0	0.011	0.002	0.009	0.385	1.3
TOTAL AREA II HEAVY	147.722				6.820	7.189	14.009	7.927	6.082	565.158	1670.8
AREA II - LIGHT											
AVON HILL											
VIKING	5.632	5.60	0.0	5.60	0.315	0.0	0.315	0.289	0.026	8.125	29.0

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										TANGLEFLAGS WEST
0.268	0.065	5.30	35.0	22.0	1.020	983	516	CRETACEOUS	1965	G.P. SAND
0.257	0.356	3.70	35.0	25.0	1.020	969	563	CRETACEOUS	1965	LLOYDMINSTER SAND
0.238	0.162	4.60	35.0	30.0	1.028	964	498	CRETACEOUS	1965	SPARKY SAND
										WESTHAZEL
0.233	0.081	6.90	35.0	30.0	1.053	941	485	CRETACEOUS	1971	G.P.SAND
0.264	0.291	5.30	35.0	24.0	1.008	988	455	CRETACEOUS	--	SPARKY SAND
										MISCELLANEOUS
0.233	0.008	1.52	35.0	30.0	1.053	--	--	CRETACEOUS	--	BASAL MANNVILLE SAND
0.233	0.194	5.60	35.0	30.0	1.052	--	--	CRETACEOUS	--	COLONY SAND
0.233	0.761	7.40	35.0	30.0	1.052	--	--	CRETACEOUS	--	CUMMINGS SAND
0.233	0.032	9.25	35.0	30.0	1.052	--	--	CRETACEOUS	--	DINA SAND
0.233	1.295	5.10	35.0	30.0	1.052	--	--	CRETACEOUS	--	G.P. SAND
0.233	1.085	5.30	35.0	30.0	1.052	--	--	CRETACEOUS	--	LLOYDMINSTER SAND
0.157	0.016	5.70	25.0	30.0	1.111	--	--	CRETACEOUS	--	MANNVILLE SANDS
0.233	0.631	8.80	35.0	30.0	1.053	--	--	CRETACEOUS	--	MANNVILLE SANDS (COMMINGLED)
0.233	0.032	2.85	35.0	30.0	1.053	--	--	CRETACEOUS	--	MCLAREN (T'FLAGS VOL UNIT NO. 3)
0.233	1.554	4.00	35.0	30.0	1.053	--	--	CRETACEOUS	--	MCLAREN SAND
0.233	0.146	6.40	35.0	30.0	1.053	--	--	CRETACEOUS	--	REX SAND
0.233	3.545	4.80	35.0	30.0	1.053	--	--	CRETACEOUS	--	SPARKY SAND
0.233	1.683	5.60	35.0	30.0	1.053	--	--	CRETACEOUS	--	WASECA SAND
										AREA II - HEAVY
										ALSASK
0.091	0.065	3.96	26.9	55.0	1.333	951	818	CRETACEOUS	1968	BASAL BLAIRMORE SAND
										BUFFALO COULEE
0.190	0.550	6.80	26.6	25.0	1.050	977	823	MISSISSIPPIAN	1952	BAKKEN SAND
										CACTUS LAKE
0.210	1.696	8.48	29.5	25.0	1.053	962	851	MISSISSIPIAN	1974	BAKKEN SAND
										COLEVILLE
0.154	2.479	12.71	24.1	31.0	1.078	977	823	MISSISSIPPIAN	1951	BAKKEN SAND
										FUSILIER
0.198	0.398	3.96	27.0	22.0	1.066	957	799	MISSISSIPPIAN	1955	BAKKEN SAND
										HOOSIER
0.233	0.228	5.88	31.5	22.0	1.053	964	865	MISSISSIPPIAN	1973	BAKKEN SAND (VOLUNTARY UNIT NO. 1)
0.219	0.489	4.71	30.0	22.0	1.066	--	--	--	--	BAKKEN SAND (NON-UNIT)
										LOVERNA
0.155	0.144	9.27	27.6	25.0	1.333	951	853	CRET.-JURASSIC	1952	DETRITAL
										NORTH HOOSIER
0.223	0.558	6.92	30 5	22.0	1.066	964	878	MISSISSIPPIAN	1965	BAKKEN SAND (VOLUNTARY UNIT)
0.223	0.210	6.98	30.5	22.0	1.066	--	--	--	--	BAKKEN SAND (NON-UNIT)
										NORTH HOOSIER
0.195	0.287	7.44	28.0	27.0	1.049	970	838	CRETACEOUS	1964	BASAL BLAIRMORE SAND (VOL UNIT)
										MISCELLANEOUS
0.191	1.424	7.62	27.2	25.0	1.066	--	--	MISSISSIPPIAN	--	BAKKEN SAND
0.202	0.208	3.35	28.4	25.0	1.053	--	--	CRETACEOUS	--	BASAL MANNVILLE SAND
0.029	0.016	3.51	6.6	42.0	1.333	--	--	DEVONIAN	--	BIRDBEAR
0.138	0.113	12.36	26.4	30.0	1.335	--	--	DEVONIAN	--	DETRITAL
0.166	0.144	5.41	25.0	30.0	1.053	--	--	CRETACEOUS	--	LLOYDMINSTER SAND
0.179	0.448	8.06	26.0	26.0	1.075	--	--	CRETACEOUS	--	MANNVILLE SAND
0.131	0.032	10.12	25.0	30.0	1.333	--	--	CRETACEOUS	--	MCLAREN SAND
										AREA II - LIGHT
										AVON HILL
0.115	2.007	2.44	23.0	45.0	1.103	853	725	CRETACEOUS	1959	VIKING

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
		PER CENT			M3 X 1 000 000						
DODSLAND											
VIKING SAND (EAGLE LAKE UNIT)	12.758	10.00	8.50	18.50	1.276	1.084	2.360	1.615	0.745	52.822	138.5
VIKING SAND (GLENEATH UNIT)	9.528	11.00	13.50	24.50	1.048	1.286	2.334	1.534	0.800	58.209	156.5
VIKING SAND (NON-UNIT)	32.712	11.50	0.0	11.50	3.762	0.0	3.762	1.390	2.372	229.487	626.5
EUREKA											
VIKING (NORTH EUREKA UNIT)	6.705	10.00	6.00	16.00	0.670	0.402	1.072	0.995	0.077	19.257	48.1
VIKING (SOUTH EUREKA UNIT)	6.796	9.50	9.00	18.50	0.646	0.612	1.258	0.985	0.273	33.148	95.3
VIKING (NON-UNIT)	0.920	4.00	0.0	4.00	0.037	0.0	0.037	0.031	0.006	1.453	3.0
LUCKY HILLS											
VIKING (VOLUNTARY UNIT)	1.575	4.40	0.0	4.40	0.069	0.0	0.069	0.055	0.014	2.838	9.1
VIKING (NON-UNIT)	1.821	4.00	0.0	4.00	0.073	0.0	0.073	0.067	0.006	2.858	6.5
PLATO											
VIKING (VOL UNIT NO. 1)	4.240	4.50	2.00	6.50	0.191	0.085	0.276	0.253	0.023	2.829	11.6
VIKING (NON-UNIT)	0.299	50	0.0	3.50	0.010	0.0	0.010	0.008	0.002	0.006	0.2
SMILEY-DEWAR											
VIKING	19.478	17.10	7.90	25.00	3.331	1.539	4.870	3.795	1.075	73.688	192.5
WHITESIDE											
VIKING SAND (UNIT)	2.558	7.80	0.0	7.80	0.200	0.0	0.200	0.198	0.002	0.836	3.2
VIKING SAND (NON-UNIT)	0.088	6.50	0.0	6.50	0.006	0.0	0.006	0.005	0.001	0.178	0.4
MISCELLANEOUS											
VIKING SAND	4.375	2.00	0.0	2.00	0.088	0.0	0.088	0.044	0.044	4.118	13.3
VIKING CHERT	0.157	1.20	0.0	1.20	0.002	0.0	0.002	0.002	0.0	0.0	0.0
TOTAL AREA II LIGHT	109.642				11.724	5.008	16.732	11.266	5.466	489.852	1333.6
AREA III - MEDIUM											
ANTELOPE LAKE											
UPPER SHAUNAVON (VOL UNIT)	0.989	5.00	4.50	9.50	0.049	0.045	0.094	0.052	0.042	2.930	8.6
UPPER SHAUNAVON (NON-UNIT)	0.029	5.00	0.0	5.00	0.001	0.0	0.001	0.001	0.0	0.181	0.6
BATTLE CREEK											
MADISON	0.429	3.70	0.0	3.70	0.016	0.0	0.016	0.015	0.001	0.337	1.6
BATTLE CREEK											
UPPER SHAUNAVON	0.495	7.00	0.0	7.00	0.035	0.0	0.035	0.024	0.011	1.562	3.1
BATTRUM											
ROSERAY SAND (UNIT NO. 1)	28.996	10.00	10.00	20.00	2.900	2.900	5.800	4.175	1.625	109.139	298.2
ROSERAY SAND (UNIT NO. 2)	6.002	6.60	22.40	29.00	0.396	1.344	1.740	0.997	0.743	52.329	77.9
ROSERAY SAND (UNIT NO. 3)	7.264	8.00	23.00	31.00	0.581	1.671	2.252	1.048	1.204	39.632	125.6
ROSERAY SAND (UNIT NO. 4)	3.436	8.30	21.70	30.00	0.285	0.746	1.031	0.714	0.317	26.160	79.6
ROSERAY SAND (NON-UNIT)	1.242	5.00	0.0	5.00	0.062	0.0	0.062	0.016	0.046	0.762	2.0
BENCH											
UPPER SHAUNAVON	3.895	6.50	0.0	6.50	0.253	0.0	0.253	0.162	0.091	10.076	29.5
BEVERLEY											
CANTUAR SAND	6.453	6.40	3.20	9.60	0.413	0.206	0.619	0.295	0.324	25.407	80.3
BEVERLEY NORTH											
CANTUAR SAND	9.004	4.00	0.0	4.00	0.360	0.0	0.360	0.104	0.256	18.437	55.6
BEVERLEY											
UPPER ROSERAY SAND (BEV. UNIT NO. 1)	4.031	15.00	29.50	44.50	0.605	1.189	1.794	1.456	0.338	12.771	84.9
UPPER ROSERAY SAND (NON-UNIT)	0.398	15.00	0.0	15.00	0.060	0.0	0.060	0.034	0.026	2.617	8.4
BONE CREEK											
UPPER SHAUNAVON (UNIT)	12.677	5.00	14.50	19.50	0.634	1.838	2.472	2.132	0.340	50.170	133.2
BUTTE											
UPPER SHAUNAVON (VOLUNTARY UNIT)	7.764	5.50	11.50	17.00	0.427	0.893	1.320	0.601	0.719	42.153	116.9
CANTUAR EAST											
CANTUAR SAND (UNIT NO. 1)	4.822	3.10	1.70	4.80	0.149	0.082	0.231	0.127	0.104	6.721	20.9
CANTUAR SAND (UNIT NO. 2)	0.814	1.60	0.0	1.60	0.013	0.0	0.013	0.009	0.004	0.725	1.8
CANTUAR EAST											
ROSERAY SAND (UNIT NO. 1)	2.907	6.80	5.80	12.60	0.198	0.169	0.367	0.174	0.193	4.015	8.7
ROSERAY SAND (UNIT NO. 2)	1.994	11.40	2.80	14.20	0.227	0.056	0.283	0.202	0.081	4.283	9.1
ROSERAY SAND (NON-UNIT)	0.014	1.00	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.057	0.2

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										DODSLAND
0.112	3.772	3.02	22.4	45.0	1.103	853	671	CRETACEOUS	1956	VIKING SAND (EAGLE LAKE UNIT)
0.108	3.011	2.93	21.7	45.0	1.103	--	--	--	--	VIKING SAND (GLENEATH UNIT)
0.112	11.970	2.44	22.4	45.0	1.103	--	--	--	--	VIKING SAND (NON-UNIT)
										EUREKA
0.120	1.683	3.32	23.0	42.0	1.111	853	723	CRETACEOUS	1954	VIKING (NORTH EUREKA UNIT)
0.121	1.522	3.69	23.0	42.0	1.100	--	--	--	--	VIKING (SOUTH EUREKA UNIT)
0.121	0.227	3.35	23.0	42.0	1.100	--	--	--	--	VIKING (NON-UNIT)
										LUCKY HILLS
0.114	0.453	3.05	23.0	45.0	1.111	843	716	CRETACEOUS	1959	VIKING (VOLUNTARY UNIT)
0.114	0.583	2.74	23.0	45.0	1.111	--	--	--	--	VIKING (NON-UNIT)
										PLATO
0.128	1.781	1.86	22.0	38.0	1.066	843	644	CRETACEOUS	1968	VIKING (VOL UNIT NO. 1)
0.128	0.275	0.85	22.0	38.0	1.066	--	--	--	--	VIKING (NON-UNIT)
										SMILEY-DEWAR
0.121	3.642	4.42	24.0	45.0	1.090	853	701	CRETACEOUS	1953	VIKING
										WHITESIDE
0.120	1.165	1.83	24.0	45.0	1.099	--	--	CRETACEOUS	1953	VIKING SAND (UNIT)
0.120	0.040	1.83	24.0	45.0	1.099	--	--	--	--	VIKING SAND (NON-UNIT)
										MISCELLANEOUS
0.135	0.688	4.71	23.0	35.0	1.111	--	--	CRETACEOUS	--	VIKING SAND
0.140	0.032	3.51	24.0	35.0	1.111	--	--	CRETACEOUS	--	VIKING CHERT
										AREA III - MEDIUM
										ANTELOPE LAKE
0.105	0.442	2.13	18.0	40.0	1.025	914	1 037	JURASSIC	1964	UPPER SHAUNAVON (VOL UNIT)
0.100	0.016	1.83	17.0	40.0	1.025	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										BATTLE CREEK
0.115	0.049	7.62	16.0	25.0	1.047	977	1 390	MISSISSIPPIAN	1966	MADISON
										BATTLE CREEK
0.084	0.129	4.57	12.5	25.0	1.111	945	1 337	JURASSIC	1966	UPPER SHAUNAVON
										BATTRUM
0.169	1.599	10.73	26.0	33.2	1.026	938	883	JURASSIC	1955	ROSERAY SAND (UNIT NO. 1)
0.190	0.324	9.75	27.4	29.0	1.026	--	--	--	--	ROSERAY SAND (UNIT NO. 2)
0.149	0.842	5.79	25.1	39.3	1.024	--	--	--	--	ROSERAY SAND (UNIT NO. 3)
0.149	0.453	5.09	25.1	39.3	1.024	--	--	--	--	ROSERAY SAND (UNIT NO. 4)
0.148	0.162	5.18	25.0	39.3	1.026	--	--	--	--	ROSERAY SAND (NON-UNIT)
										BENCH
0.128	1.295	2.35	16.0	15.0	1.064	908	1 347	JURASSIC	1969	UPPER SHAUNAVON
										BEVERLEY
0.113	1.149	4.97	22.6	46.1	1.076	932	991	CRETACEOUS	1969	CANTUAR SAND
										BEVERLEY NORTH
0.118	1.004	4.60	23.0	45.0	1.076	932	969	CRETACEOUS	1967	CANTUAR SAND
										BEVERLEY
0.161	0.805	3.11	28.0	38.8	1.063	926	983	JURASSIC	1952	UPPER ROSERAY SAND (BEV. UNIT NO. 1)
0.161	0.081	3.05	28.0	38.8	1.063	--	--	--	--	UPPER ROSERAY SAND (NON-UNIT)
										BONE CREEK
0.123	2.226	4.63	13.8	5.0	1.064	914	1 341	JURASSIC	1954	UPPER SHAUNAVON (UNIT)
										BUTTE
0.164	2.505	1.89	22.8	25.0	1.041	914	1 338	JURASSIC	1967	UPPER SHAUNAVON (VOLUNTARY UNIT)
										CANTUAR EAST
0.122	0.763	5.18	23.3	43.6	1.079	920	964	CRETACEOUS	1956	CANTUAR SAND (UNIT NO. 1)
0.122	0.146	4.57	23.3	43.6	1.079	--	--	--	--	CANTUAR SAND (UNIT NO. 2)
										CANTUAR EAST
0.145	0.716	2.80	26.0	40.0	1.079	926	983	JURASSIC	1952	ROSERAY SAND (UNIT NO. 1)
0.145	0.502	2.74	26.0	40.0	1.079	--	--	--	--	ROSERAY SAND (UNIT NO. 2)
0.145	0.008	1.22	26.0	40.0	1.079	--	--	--	--	ROSERAY SAND (NON-UNIT)

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
		PER CENT			M3 X 1 000 000						
CANTUAR											
LOWER ROSERAY SAND (CANTUAR UNIT)	13.922	12.50	0.0	12.50	1.740	0.0	1.740	1.403	0.337	21.563	102.1
LOWER ROSERAY SAND (NON-UNIT)	0.032	0.50	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CANTUAR MAIN											
CANTUAR SAND (CANTUAR UNIT)	22.108	8.70	10.40	19.10	1.923	2.299	4.222	3.393	0.829	47.369	300.6
CANTUAR SAND (NON-UNIT)	0.112	5.00	0.0	5.00	0.006	0.0	0.006	0.0	0.006	0.0	0.0
CLINTONVILLE											
SHAUNAVON	1.533	3.20	0.0	3.20	0.049	0.0	0.049	0.047	0.002	2.085	6.0
COVINGTON											
UPPER SHAUNAVON (COV. UNIT NO. 1)	1.073	14.00	5.50	19.50	0.150	0.059	0.209	0.203	0.006	1.832	4.8
COVINGTON WEST											
UPPER SHAUNAVON	0.834	9.50	0.0	9.50	0.079	0.0	0.079	0.063	0.016	2.840	13.9
DELTA											
UPPER SHAUNAVON (DELTA UNIT NO. 1)	9.396	12.00	13.70	25.70	1.128	1.287	2.415	2.039	0.376	19.025	99.9
UPPER SHAUNAVON (DELTA UNIT NO. 2)	2.537	7.00	6.60	13.60	0.178	0.167	0.345	0.290	0.055	5.081	31.2
UPPER SHAUNAVON (NON-UNIT)	1.699	4.70	0.0	4.70	0.080	0.0	0.080	0.068	0.012	2.124	6.1
DOLLARD											
UPPER SHAUNAVON (UNIT)	26.078	20.00	29.00	49.00	5.216	7.563	12.779	12.001	0.778	142.076	351.9
UPPER SHAUNAVON (E. DOLL. VOL UNIT)	1.651	20.00	19.00	39.00	0.330	0.314	0.644	0.489	0.155	23.288	58.3
UPPER SHAUNAVON (NON-UNIT)	0.585	15.50	0.0	15.50	0.091	0.0	0.091	0.084	0.007	1.263	4.9
EASTBROOK											
UPPER SHAUNAVON	0.320	11.00	0.0	11.00	0.035	0.0	0.035	0.027	0.008	1.440	3.3
EASTEND											
SHAUNAVON	0.684	7.00	0.0	7.00	0.048	0.0	0.048	0.042	0.006	0.0	0.0
FOSTERTON											
ROSERAY SAND (MAIN UNIT)	22.040	17.00	26.20	43.20	3.747	5.774	9.521	8.294	1.227	38.633	196.8
ROSERAY SAND (N.W. UNIT)	1.975	11.00	15.50	26.50	0.217	0.306	0.523	0.514	0.009	1.974	5.0
ROSERAY SAND (W. FOST. VOL. UNIT)	1.219	11.00	29.00	40.00	0.134	0.354	0.488	0.416	0.072	6.814	14.6
GULL LAKE											
BASAL CANTUAR SAND (VOL UNIT NO. 1)	1.911	4.80	12.20	17.00	0.092	0.233	0.325	0.204	0.121	13.674	38.1
BASAL CANTUAR SAND (JOHNSTON UNIT)	1.034	6.50	6.00	12.50	0.067	0.062	0.129	0.124	0.005	2.427	6.5
BASAL CANTUAR SAND (NON-UNIT)	0.474	7.00	0.0	7.00	0.033	0.0	0.033	0.029	0.004	1.875	5.6
GULL LAKE CENTRAL											
UPPER SHAUNAVON (VOL UNIT NO. 1)	0.616	24.00	19.00	43.00	0.148	0.117	0.265	0.172	0.093	8.132	25.6
UPPER SHAUNAVON (NON-UNIT)	0.457	20.00	0.0	20.00	0.091	0.0	0.091	0.078	0.013	3.692	14.7
GULL LAKE NORTH											
UPPER SHAUNAVON (UNIT)	6.816	10.00	36.00	46.00	0.682	2.454	3.136	2.833	0.303	16.914	98.1
UPPER SHAUNAVON (NON-UNIT)	0.360	10.00	0.0	10.00	0.036	0.0	0.036	0.026	0.010	1.187	4.6
GULL LAKE SOUTH											
UPPER SHAUNAVON	1.939	6.40	0.0	6.40	0.124	0.0	0.124	0.108	0.016	3.551	10.4
HAZLET											
ROSERAY SAND (UNIT)	1.741	24.00	0.0	24.00	0.418	0.0	0.418	0.371	0.047	6.096	12.1
ROSERAY SAND (NON-UNIT)	0.063	0.50	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ILLERBRUN											
UPPER SHAUNAVON (VOLUNTARY UNIT)	3.169	16.60	13.40	30.00	0.526	0.425	0.951	0.841	0.110	21.592	64.5
UPPER SHAUNAVON (NON-UNIT)	0.285	3.00	0.0	3.00	0.009	0.0	0.009	0.006	0.003	0.041	0.1
INSTOW											
UPPER SHAUNAVON (UNIT)	23.727	9.00	24.50	33.50	2.135	5.813	7.948	6.815	1.133	130.611	321.9
UPPER SHAUNAVON (NON-UNIT)	0.060	5.00	0.0	5.00	0.003	0.0	0.003	0.001	0.002	0.167	0.5
JOHNSTON											
UPPER SHAUNAVON (JOHNSTON UNIT)	0.201	17.50	0.0	17.50	0.035	0.0	0.035	0.032	0.003	0.512	0.9
LEITCHVILLE											
SHAUNAVON (VOLUNTARY UNIT)	4.945	2.50	2.60	5.10	0.124	0.129	0.253	0.191	0.062	5.273	12.1
SHAUNAVON (NON-UNIT)	1.750	7.00	0.0	7.00	0.123	0.0	0.123	0.026	0.097	9.642	30.6
LEON LAKE											
SHAUNAVON	4.843	5.00	1.10	6.10	0.242	0.053	0.295	0.229	0.066	7.118	19.5
MAIN SUCCESS											
ROSERAY SAND (MAIN UNIT)	6.841	13.00	25.40	38.40	0.889	1.738	2.627	2.512	0.115	8.591	29.7

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										CANTUAR
0.190	2.765	2.65	27.2	24.6	1.079	964	990	JURASSIC	1952	LOWER ROSERAY SAND (CANTUAR UNIT)
0.190	0.008	2.13	27.2	24.6	1.079	--	--	--	--	LOWER ROSERAY SAND (NON-UNIT)
										CANTUAR MAIN
0.138	3.166	5.06	26.4	43.6	1.079	932	975	CRETACEOUS	1952	CANTUAR SAND (CANTUAR UNIT)
0.138	0.016	5.05	26.4	43.6	1.079	--	--	--	--	CANTUAR SAND (NON-UNIT)
										CLINTONVILLE
0.097	0.259	6.10	13.7	25.0	1.064	914	1 362	JURASSIC	1953	SHAUNAVON
										COVINGTON
0.117	0.376	2.44	15.5	22.0	1.036	914	1 330	JURASSIC	1966	UPPER SHAUNAVON (COV. UNIT NO. 1)
										COVINGTON WEST
0.066	0.259	4.88	11.8	25.0	1.333	885	1 336	JURASSIC	1969	UPPER SHAUNAVON
										DELTA
0.136	2.159	3.20	20.4	28.5	1.074	914	1 065	JURASSIC	1956	UPPER SHAUNAVON (DELTA UNIT NO. 1)
0.093	0.716	3.81	20.0	50.0	1.074	--	--	--	--	UPPER SHAUNAVON (DELTA UNIT NO. 2)
0.099	0.469	3.66	21.2	50.0	1.074	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										DOLLARD
0.162	3.642	4.42	20.0	12.0	1.087	914	1 402	JURASSIC	1953	UPPER SHAUNAVON (UNIT)
0.110	0.469	3.20	17.2	30.6	1.087	--	--	--	--	UPPER SHAUNAVON (E. DOLL. VOL UNIT)
0.169	0.081	4.27	20.9	12.0	1.087	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										EASTBROOK
0.095	0.065	5.18	13.6	25.0	1.075	926	1 420	JURASSIC	1966	UPPER SHAUNAVON
										EASTEND
0.094	0.194	3.75	13.0	23.5	1.053	921	1 434	JURASSIC	1952	SHAUNAVON
										FOSTERTON
0.222	1.012	9.81	28.8	19.0	1.053	926	975	CRET.-JUR.	1952	ROSERAY SAND (MAIN UNIT)
0.225	0.104	8.44	28.8	19.0	1.035	--	--	--	--	ROSERAY SAND (N.W. UNIT)
0.166	0.146	5.03	25.0	30.0	1.053	--	--	--	--	ROSERAY SAND (W. FOST. VOL. UNIT)
										GULL LAKE
0.173	0.377	2.93	26.5	30.0	1.075	914	1 100	CRETACEOUS	1953	BASAL CANTUAR SAND (VOL UNIT NO. 1)
0.119	0.132	6.58	21.1	39.5	1.076	--	--	--	--	BASAL CANTUAR SAND (JOHNSTON UNIT)
0.118	0.061	6.58	21.0	39.5	1.076	--	--	--	--	BASAL CANTUAR SAND (NON-UNIT)
										GULL LAKE CENTRAL
0.084	0.453	1.62	16.9	46.5	1.080	914	1 194	JURASSIC	1953	UPPER SHAUNAVON (VOL UNIT NO. 1)
0.084	0.324	1.68	16.9	46.5	1.080	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										GULL LAKE NORTH
0.141	1.230	3.93	19.4	25.0	1.031	914	1 158	JURASSIC	1953	UPPER SHAUNAVON (UNIT)
0.141	0.065	3.93	19.4	25.0	1.031	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										GULL LAKE SOUTH
0.149	0.761	1.71	20.5	25.0	1.031	891	1 325	JURASSIC	1952	UPPER SHAUNAVON
										HAZLET
0.173	0.191	5.27	23.0	21.0	1.050	920	963	JURASSIC	1963	ROSERAY SAND (UNIT)
0.173	0.016	2.29	23.0	21.0	1.050	--	--	--	--	ROSERAY SAND (NON-UNIT)
										ILLERBRUN
0.140	0.688	3.29	19.0	22.0	1.057	885	1 280	JURASSIC	1965	UPPER SHAUNAVON (VOLUNTARY UNIT)
0.120	0.065	3.66	16.3	22.0	1.057	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										INSTOW
0.123	4.249	4.54	13.8	5.0	1.064	914	1 371	JURASSIC	1954	UPPER SHAUNAVON (UNIT)
0.077	0.032	2.44	8.6	5.0	1.064	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										JOHNSTON
0.135	0.061	2.44	16.4	15.0	1.031	914	1 188	JURASSIC	1953	UPPER SHAUNAVON (JOHNSTON UNIT)
										LEITCHVILLE
0.110	0.971	4.63	15.7	25.6	1.064	914	1 371	JURASSIC	1960	SHAUNAVON (VOLUNTARY UNIT)
0.176	0.777	1.28	20.8	10.0	1.064	--	--	--	--	SHAUNAVON (NON-UNIT)
										LEON LAKE
0.151	0.906	3.54	17.3	5.0	1.091	920	1 371	JURASSIC	1953	SHAUNAVON
										MAIN SUCCESS
0.197	0.770	4.51	26.8	19.9	1.087	914	975	JURASSIC	1952	ROSERAY SAND (MAIN UNIT)

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL	DAILY AVERAGE
		PER CENT			M3 X 1 000 000					M3X1 000	M3/DAY
NORTH PREMIER											
ROSERAY SAND (UNIT NO. 1)	4.020	15.00	29.00	44.00	0.603	1.166	1.769	1.575	0.194	10.171	49.1
ROSERAY SAND (UNIT NO. 4)	4.634	15.00	32.00	47.00	0.695	1.483	2.178	1.999	0.179	13.548	80.9
ROSERAY SAND (NON-UNIT)	0.392	10.00	0.0	10.00	0.039	0.0	0.039	0.006	0.033	4.821	15.1
NORTH PREMIER											
UPPER SHAUNAVON (UNIT NO. 1)	0.324	5.00	0.0	5.00	0.016	0.0	0.016	0.016	0.0	0.030	0.1
UPPER SHAUNAVON (VOLUNTARY UNIT)	0.883	6.00	8.00	14.00	0.053	0.071	0.124	0.094	0.030	5.120	13.6
UPPER SHAUNAVON (UNIT NO. 4)	4.147	4.60	6.10	10.70	0.191	0.253	0.444	0.239	0.205	5.130	20.6
UPPER SHAUNAVON (NON-UNIT)	0.659	8.20	0.0	8.20	0.054	0.0	0.054	0.033	0.021	2.715	7.7
PENNANT											
UPPER SHAUNAVON	1.024	7.50	0.0	7.50	0.077	0.0	0.077	0.059	0.018	4.171	12.1
RAPDAN											
UPPER SHAUNAVON (UNIT)	17.303	6.10	10.80	16.90	1.055	1.869	2.924	2.211	0.713	68.143	183.4
UPPER SHAUNAVON (N.RAPDAN VOL UNIT)	3.973	3.00	2.20	5.20	0.119	0.087	0.206	0.138	0.068	6.637	20.8
UPPER SHAUNAVON (VOL UNIT NO 2)	1.689	3.80	11.50	15.30	0.064	0.194	0.258	0.095	0.163	11.995	32.2
UPPER SHAUNAVON (NON-UNIT)	0.235	2.00	0.0	2.00	0.005	0.0	0.005	0.003	0.002	0.826	2.3
RAPDAN WEST											
SHAUNAVON	3.534	5.00	0.0	5.00	0.177	0.0	0.177	0.094	0.083	10.481	22.5
SOUTH SUCCESS											
ROSERAY SAND (SUCCESS UNIT)	8.515	13.20	31.80	45.00	1.132	2.727	3.859	3.172	0.687	21.322	110.1
ROSERAY SAND (NON-UNIT)	0.912	15.00	0.0	15.00	0.137	0.0	0.137	0.019	0.118	12.737	35.2
SUCCESS ALPHA											
ROSERAY SAND (ALPHA UNIT)	1.441	14.30	25.90	40.20	0.206	0.373	0.579	0.531	0.048	2.897	12.2
SUFFIELD											
ROSERAY SAND (UNIT NO.1)	1.883	15.00	46.00	61.00	0.282	0.866	1.148	0.937	0.211	14.827	92.7
ROSERAY SAND (UNIT NO. 3)	2.784	13.00	29.00	42.00	0.362	0.807	1.169	0.936	0.233	19.259	117.6
ROSERAY SAND (NON-UNIT)	0.107	1.00	0.0	1.00	0.001	0.0	0.001	0.0	0.001	0.0	0.0
SUFFIELD											
UPPER SHAUNAVON (UNIT NO. 2)	3.221	7.00	16.50	23.50	0.225	0.531	0.756	0.529	0.227	11.770	48.3
UPPER SHAUNAVON (UNIT NO. 3)	0.822	10.00	18.50	28.50	0.082	0.152	0.234	0.167	0.067	3.712	30.3
UPPER SHAUNAVON (NON-UNIT)	0.808	6.30	0.0	6.30	0.051	0.0	0.051	0.039	0.012	1.082	4.1
VERLO											
ROSERAY SAND (VERLO ROSERAY SD UNIT)	8.371	3.50	19.50	23.00	0.293	1.632	1.925	1.167	0.758	32.795	187.4
WHITEMUD											
UPPER SHAUNAVON	2.296	2.00	0.0	2.00	0.046	0.0	0.046	0.041	0.005	1.476	3.7
MISCELLANEOUS											
BASAL MANNVILLE	0.501	3.00	0.0	3.00	0.015	0.0	0.015	0.009	0.006	0.001	0.0
CANTUAR SAND	11.097	3.30	0.0	3.30	0.366	0.0	0.366	0.247	0.119	10.487	33.0
GRAVELBOURG	0.201	8.00	0.0	8.00	0.016	0.0	0.016	0.009	0.007	1.543	3.5
PREMIER SAND (N. PREMIER UNIT NO.2)	0.232	15.00	12.00	27.00	0.035	0.028	0.063	0.057	0.006	0.430	1.8
ROSERAY SAND	10.180	5.00	0.0	5.00	0.509	0.0	0.509	0.268	0.241	40.329	138.4
LOWER ROSERAY	0.065	1.90	0.0	1.90	0.001	0.0	0.001	0.001	0.0	0.0	0.0
UPPER ROSERAY	0.144	3.50	0.0	3.50	0.005	0.0	0.005	0.004	0.001	0.088	0.3
SHAUNAVON	0.130	1.00	0.0	1.00	0.001	0.0	0.001	0.0	0.001	0.0	0.0
LOWER SHAUNAVON	1.118	4.50	0.0	4.50	0.050	0.0	0.050	0.044	0.006	1.312	3.0
UPPER SHAUNAVON	6.774	6.00	0.0	6.00	0.406	0.0	0.406	0.213	0.193	20.994	66.5
TOTAL AREA III MEDIUM	377.164				35.961	52.525	88.486	71.261	17.225	1309.822	4390.1
AREA IV - MEDIUM											
BENSON											
MIDALE (UNIT)	8.094	6.00	17.40	23.40	0.486	1.408	1.894	1.304	0.590	46.016	123.8
MIDALE (VOLUNTARY UNIT NO. 1)	2.260	5.00	16.00	21.00	0.113	0.362	0.475	0.318	0.157	13.731	35.6
MIDALE (NON-UNIT)	2.534	9.70	0.0	9.70	0.246	0.0	0.246	0.165	0.081	6.771	21.9
BROMHEAD											
MIDALE	2.802	9.50	0.0	9.50	0.266	0.0	0.266	0.227	0.039	7.117	21.0
BRYANT											
FROBISHER	0.239	9.60	0.0	9.60	0.023	0.0	0.023	0.003	0.020	1.731	3.3

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										NORTH PREMIER
0.237	0.364	4.66	32.9	25.0	1.042	908	1 005	JURASSIC	1953	ROSERAY SAND (UNIT NO. 1)
0.164	0.635	4.45	26.7	35.8	1.046	--	--	--	--	ROSERAY SAND (UNIT NO. 4)
0.237	0.032	5.17	32.9	25.0	1.042	--	--	--	--	ROSERAY SAND (NON-UNIT)
										NORTH PREMIER
0.109	0.065	4.57	16.1	25.0	1.111	914	1 066	JURASSIC	1953	UPPER SHAUNAVON (UNIT NO. 1)
0.112	0.291	2.71	19.2	40.0	1.025	--	--	--	--	UPPER SHAUNAVON (VOLUNTARY UNIT)
0.099	1.309	3.20	19.0	45.0	1.053	--	--	--	--	UPPER SHAUNAVON (UNIT NO. 4)
0.099	0.162	4.11	19.0	45.0	1.053	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										PENNANT
0.128	0.332	2.41	18.0	25.0	1.053	926	990	JURASSIC	1965	UPPER SHAUNAVON
										RAPDAN
0.136	2.784	4.57	15.4	5.0	1.078	914	1 402	JURASSIC	1953	UPPER SHAUNAVON (UNIT)
0.158	0.497	5.06	17.7	5.0	1.064	--	--	--	--	UPPER SHAUNAVON (N.RAPDAN VOL UNIT)
0.115	0.259	5.67	13.7	9.5	1.075	--	--	--	--	UPPER SHAUNAVON (VOL UNIT NO 2)
0.148	0.065	2.44	16.6	5.0	1.064	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										RAPDAN WEST
0.134	0.809	3.26	15.0	5.0	1.064	920	1 407	CRETACEOUS	1955	SHAUNAVON
										SOUTH SUCCESS
0.193	0.732	6.07	27.4	23.4	1.089	914	975	JURASSIC	1953	ROSERAY SAND (SUCCESS UNIT)
0.150	0.113	5.38	23.1	30.0	1.075	--	--	--	--	ROSERAY SAND (NON-UNIT)
										SUCCESS ALPHA
0.178	0.176	4.60	24.8	22.9	1.075	914	975	JURASSIC	1953	ROSERAY SAND (ALPHA UNIT)
										SUFFIELD
0.171	0.341	3.23	26.0	29.3	1.078	914	1 036	JURASSIC	1954	ROSERAY SAND (UNIT NO.1)
0.157	0.593	2.99	26.0	35.0	1.078	--	--	--	--	ROSERAY SAND (UNIT NO. 3)
0.157	0.032	2.13	26.0	35.0	1.078	--	--	--	--	ROSERAY SAND (NON-UNIT)
										SUFFIELD
0.128	0.699	3.60	17.6	25.0	1.031	914	1 097	JURASSIC	1954	UPPER SHAUNAVON (UNIT NO. 2)
0.152	0.269	2.01	21.2	25.0	1.048	--	--	--	--	UPPER SHAUNAVON (UNIT NO. 3)
0.124	0.178	3.66	17.0	25.0	1.031	--	--	--	--	UPPER SHAUNAVON (NON-UNIT)
										VERLO
0.181	0.898	5.15	27.5	29.1	1.080	920	963	JURASSIC	1956	ROSERAY SAND (VERLO ROSERAY SD UNIT)
										WHITEMUD
0.163	0.453	3.11	22.1	20.0	1.083	914	1 432	JURASSIC	1953	UPPER SHAUNAVON
										MISCELLANEOUS
0.113	0.097	4.57	20.0	25.0	1.333	--	--	CRETACEOUS	--	BASAL MANNVILLE
0.151	1.004	7.32	25.0	35.0	1.075	-	--	CRETACEOUS	--	CANTUAR SAND
0.085	0.097	2.44	15.1	25.0	1.333	--	--	JURASSIC	--	GRAVELBOURG
0.221	0.075	1.40	30.8	25.0	1.046	--	--	CRETACEOUS	--	PREMIER SAND (N. PREMIER UNIT NO.2)
0.180	0.987	5.73	24.6	25.0	1.026	--	--	JURASSIC	--	ROSERAY SAND
0.190	0.016	2.13	27.2	24.6	1.079	--	--	JURASSIC	--	LOWER ROSERAY
0.181	0.016	4.98	26.0	25.0	1.075	--	--	JURASSIC	--	UPPER ROSERAY
0.074	0.032	5.49	10.4	25.0	1.053	--	--	JURASSIC	--	SHAUNAVON
0.105	0.194	5.49	14.8	25.0	1.053	--	--	JURASSIC	--	LOWER SHAUNAVON
0.123	1.327	4.15	17.6	25.0	1.075	--	--	JURASSIC	--	UPPER SHAUNAVON
										AREA IV - MEDIUM
										BENSON
0.151	2.978	1.80	24.2	30.0	1.124	885	1 371	MISSISSIPPIAN	1956	MIDALE (UNIT)
0.151	1.117	1.34	24.3	30.0	1.124	--	--	--	--	MIDALE (VOLUNTARY UNIT NO. 1)
0.108	0.906	2.59	17.3	30.0	1.124	--	--	--	--	MIDALE (NON-UNIT)
										BROMHEAD
0.079	0.761	4.66	13.7	35.0	1.124	874	1 693	MISSISSIPPIAN	1965	MIDALE
										BRYANT
0.055	0.128	3.40	12.3	50.0	1.112	884	1 433	MISSISSIPPIAN	1979	FROBISHER

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL	DAILY AVERAGE
		PER CENT			M3 X 1 000 000					M3X1 000	M3/DAY
BRYANT											
MIDALE	2.104	5.00	0.0	5.00	0.105	0.0	0.105	0.014	0.091	8.684	19.4
FLAT LAKE											
RATCLIFFE (VOLUNTARY UNIT NO. 1)	8.216	10.00	14.00	24.00	0.822	1.150	1.972	1.259	0.713	36.891	86.9
RATCLIFFE (NON-UNIT)	0.190	10.00	0.0	10.00	0.019	0.0	0.019	0.001	0.018	0.682	3.1
FREDA LAKE											
RATCLIFFE	5.452	9.50	0.0	9.50	0.518	0.0	0.518	0.330	0.188	12.270	18.2
FREESTONE											
FROBISHER-ALIDA	1.018	28.10	0.0	28.10	0.286	0.0	0.286	0.246	0.040	7.189	19.7
GRIFFIN											
FROBISHER	0.637	19.50	0.0	19.50	0.124	0.0	0.124	0.120	0.004	1.934	5.1
HANDSWORTH											
ALIDA	3.413	12.20	0.0	12.20	0.416	0.0	0.416	0.350	0.066	9.779	24.5
HARTAVEN											
FROBISHER-ALIDA	0.275	22.20	0.0	22.20	0.061	0.0	0.061	0.058	0.003	2.232	4.7
HOFFER											
RATCLIFFE LOWER POOL	2.285	14.00	0.0	14.00	0.320	0.0	0.320	0.254	0.066	2.822	3.2
HOFFER											
RATCLIFFE UPPER POOL	1.366	10.20	0.0	10.20	0.139	0.0	0.139	0.065	0.074	5.545	13.7
HUME											
FROBISHER	0.890	23.00	0.0	23.00	0.205	0.0	0.205	0.159	0.046	6.461	16.9
HUME											
MIDALE	1.126	12.00	0.0	12.00	0.135	0.0	0.135	0.114	0.021	6.740	16.5
HUMMINGBIRD											
RATCLIFFE (VOLUNTARY UNIT NO. 1)	4.115	10.00	3.50	13.50	0.411	0.144	0.555	0.427	0.128	10.062	27.4
HUNTOON											
FROBISHER	3.064	16.00	0.0	16.00	0.490	0.0	0.490	0.468	0.022	5.195	11.4
HUNTOON											
MIDALE (VOL. UNIT NO. 1)	4.439	5.00	3.00	8.00	0.222	0.133	0.355	0.256	0.099	9.608	25.9
MIDALE (NON-UNIT)	0.386	10.90	0.0	10.90	0.042	0.0	0.042	0.034	0.008	0.935	2.9
INNES											
FROBISHER	9.285	23.10	0.0	23.10	2.145	0.0	2.145	1.595	0.550	43.945	124.4
LAKE ALMA											
RATCLIFFE (VOLUNTARY UNIT)	1.822	17.00	36.00	53.00	0.310	0.656	0.966	0.531	0.435	20.007	98.5
LOST HORSE HILL											
FROBISHER-ALIDA (VOL UNIT NO. 1)	8.211	26.00	0.0	26.00	2.135	0.0	2.135	1.759	0.376	49.366	134.2
FROBISHER-ALIDA (NON-UNIT)	4.316	23.00	0.0	23.00	0.993	0.0	0.993	0.700	0.293	22.475	62.1
LOUGHEED											
MIDALE	4.343	14.40	0.0	14.40	0.625	0.0	0.625	0.434	0.191	13.293	42.2
MACOUN											
MIDALE	2.035	17.00	0.0	17.00	0.346	0.0	0.346	0.210	0.136	15.496	51.4
MACOUN WEST											
MIDALE	0.549	25.00	0.0	25.00	0.137	0.0	0.137	0.018	0.119	12.727	32.0
MELROSE											
FROBISHER-ALIDA	0.887	14.90	0.0	14.90	0.132	0.0	0.132	0.106	0.026	3.680	10.2
MIDALE											
CENTRAL-FROBISHER	3.703	27.00	0.0	27.00	1.000	0.0	1.000	0.854	0.146	7.883	27.0
MIDALE											
CENTRAL MIDALE (UNIT)	56.879	16.80	14.20	31.00	9.556	8.077	17.633	13.846	3.787	260.929	821.5
CENTRAL MIDALE (NON-UNIT)	8.044	16.80	0.0	16.80	1.351	0.0	1.351	0.951	0.400	52.553	139.7
MINARD											
MIDALE	0.268	6.70	0.0	6.70	0.018	0.0	0.018	0.002	0.016	1.154	1.8
MOOSE VALLEY											
TILSTON	0.736	9.00	0.0	9.00	0.066	0.0	0.066	0.050	0.016	5.611	19.9
NEPTUNE											
RATCLIFFE	2.707	14.00	0.0	14.00	0.379	0.0	0.379	0.200	0.179	12.646	37.1
NORTH HANDSWORTH											
ALIDA	1.702	23.00	0.0	23.00	0.391	0.0	0.391	0.259	0.132	12.028	38.5

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HOSIZON
										BRYANT
0.137	1.024	1.50	28.5	46.0	1.125	880	1 406	MISSISSIPPIAN	1979	MIDALE
										FLAT LAKE
0.060	2.428	5.64	14.1	49.2	1.199	869	1 956	MISSISSIPPIAN	1965	RATCLIFFE (VOLUNTARY UNIT NO. 1)
0.034	0.065	8.60	8.1	49.2	1.199	--	--	--	--	RATCLIFFE (NON-UNIT)
										FREDA LAKE
0.123	1.068	4.15	24.9	45.0	1.111	848	1 694	MISSISSIPPIAN	1967	RATCLIFFE
										FREESTONE
0.059	0.822	2.10	12.2	35.0	1.333	869	1 180	MISSISSIPPIAN	1953	FROBISHER-ALIDA
										GRIFFIN
0.047	0.453	2.99	8.4	35.0	1.163	874	1 301	MISSISSIPPIAN	1958	FROBISHER
										HANDSWORTH
0.054	1.036	6.10	11.1	35.0	1.333	880	1 204	MISSISSIPPIAN	1964	ALIDA
										HARTAVEN
0.070	0.129	3.05	13.2	40.0	1.124	874	1 199	MISSISSIPPIAN	1965	FROBISHER-ALIDA
										HOFFER
0.068	0.388	8.66	13.0	35.0	1.250	869	1 935	MISSISSIPPIAN	1964	RATCLIFFE LOWER POOL
										HOFFER
0.066	0.453	4.57	12.6	35.0	1.250	869	1 927	MISSISSIPPIAN	1964	RATCLIFFE UPPER POOL
										HUME
0.052	0.453	3.78	9.0	35.0	1.124	869	1 350	MISSISSIPPIAN	1967	FROBISHER
										HUME
0.069	0.777	2.10	11.9	35.0	1.124	869	1 332	MISSISSIPPIAN	1968	MIDALE
										HUMMINGBIRD
0.087	0.442	10.70	14.0	30.6	1.117	869	1 890	MISSISSIPPIAN	1966	RATCLIFFE (VOLUNTARY UNIT NO. 1)
										HUNTOON
0.058	1.732	3.05	10.0	35.0	1.124	880	1 371	MISSISSIPPIAN	1957	FROBISHER
										HUNTOON
0.104	1.230	3.47	18.0	35.0	1.124	874	1 359	MISSISSIPPIAN	1957	MIDALE (VOL. UNIT NO. 1)
0.049	0.323	2.44	8.5	35.0	1.124	--	--	--	--	MIDALE (NON-UNIT)
										INNES
0.056	1.554	10.67	10.0	35.0	1.163	869	1 333	MISSISSIPPIAN	1965	FROBISHER
										LAKE ALMA
0.128	0.354	4.02	23.5	40.0	1.098	874	1 981	MISSISSIPPIAN	1965	RATCLIFFE (VOLUNTARY UNIT)
										LOST HORSE HILL
0.077	0.583	18.29	15.3	45.0	1.093	874	1 173	MISSISSIPPIAN	1963	FROBISHER-ALIDA (VOL UNIT NO. 1)
0.082	0.680	7.74	15.3	40.0	1.124	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										LOUGHEED
0.100	0.712	6.10	17.2	35.0	1.124	864	1 407	MISSISSIPPIAN	1959	MIDALE
										MACOUN
0.064	1.003	3.17	11.5	35.0	1.163	874	1 531	MISSISSIPPIAN	1969	MIDALE
										MACOUN WEST
0.050	0.323	3.40	10.6	45.0	1.163	883	1 559	MISSISSIPPIAN	1970	MIDALE
										MELROSE
0.070	0.227	5.58	14.2	45.0	1.124	874	1 169	MISSISSIPPIAN	1963	FROBISHER-ALIDA
										MIDALE
0.055	1.052	6.40	12.3	50.0	1.124	891	1 411	MISSISSIPPIAN	1953	CENTRAL-FROBISHER
										MIDALE
0.088	12.335	5.24	16.3	39.4	1.124	891	1 402	MISSISSIPPIAN	1953	CENTRAL MIDALE (UNIT)
0.097	2.719	3.05	17.0	36.0	1.124	--	--	--	--	CENTRAL MIDALE (NON-UNIT)
										MINARD
0.131	0.128	1.60	29.5	45.0	1.234	871	1 340	MISSISSIPPIAN	1956	MIDALE
										MOOSE VALLEY
0.072	0.129	7.92	13.3	40.0	1.111	874	1 163	MISSISSIPPIAN	1958	TILSTON
										NEPTUNE
0.094	0.711	4.05	19.0	45.0	1.111	874	1 764	MISSISSIPPIAN	1967	RATCLIFFE
										NORTH HANDSWORTH
0.048	0.776	4.57	9.9	35.0	1.333	880	1 176	MISSISSIPPIAN	1965	ALIDA

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
		PER CENT			M3 X 1 000 000						
OUNGRE											
RATCLIFFE (VOLUNTARY UNIT NO. 1)	14.521	9.00	5.20	14.20	1.307	0.755	2.062	0.883	1.179	36.277	146.3
RATCLIFFE (NON-UNIT)	1.484	7.40	0.0	7.40	0.110	0.0	0.110	0.040	0.070	2.961	11.6
RALPH											
MIDALE	2.367	7.00	0.0	7.00	0.166	0.0	0.166	0.101	0.065	9.004	27.3
SHERWOOD											
FROBISHER	3.494	53.00	0.0	53.00	1.852	0.0	1.852	1.521	0.331	23.908	54.8
SKINNER LAKE											
RATCLIFFE	3.357	10.00	0.0	10.00	0.336	0.0	0.336	0.172	0.164	9.176	15.7
STOUGHTON											
FROBISHER-ALIDA	1.119	33.00	0.0	33.00	0.369	0.0	0.369	0.291	0.078	8.012	21.1
STOUGHTON SOUTH											
FROBISHER	1.529	8.80	0.0	8.80	0.135	0.0	0.135	0.078	0.057	9.353	28.3
TATAGWA											
MIDALE	11.311	4.50	0.0	4.50	0.509	0.0	0.509	0.056	0.453	19.689	46.5
VIEWFIELD											
FROBISHER (VOLUNTARY UNIT NO. 1)	1.475	9.00	0.0	9.00	0.133	0.0	0.133	0.085	0.048	8.816	19.6
FROBISHER (NON-UNIT)	13.577	13.50	0.0	13.50	1.833	0.0	1.833	0.780	1.053	57.062	135.7
VIEW HILL											
MIDALE	0.684	24.00	0.0	24.00	0.164	0.0	0.164	0.136	0.028	3.021	7.9
WAPELLA											
WAPELLA SAND	2.975	44.80	0.0	44.80	1.333	0.0	1.333	1.042	0.291	28.485	77.7
WEIR HILL											
FROBISHER	0.877	5.90	0.0	5.90	0.052	0.0	0.052	0.042	0.010	1.929	6.2
WEST INNES											
FROBISHER	0.690	24.00	0.0	24.00	0.166	0.0	0.166	0.150	0.016	2.492	6.9
WEST KINGSFORD											
MIDALE (CULLEN UNIT)	0.889	49.00	0.0	49.00	0.436	0.0	0.436	0.391	0.045	5.443	22.1
MIDALE (NON-UNIT)	2.463	23.50	0.0	23.50	0.579	0.0	0.579	0.481	0.098	8.794	24.3
WEYBURN											
FROBISHER	2.514	15.80	0.0	15.80	0.397	0.0	0.397	0.352	0.045	4.715	16.3
WEYBURN											
MIDALE (UNIT)	177.001	13.50	16.20	29.70	23.895	28.674	52.569	38.618	13.951	528.125	2429.2
MIDALE (NON-UNIT)	10.487	12.50	0.0	12.50	1.311	0.0	1.311	0.903	0.408	54.115	159.8
MISCELLANEOUS											
ALIDA	0.350	11.00	0.0	11.00	0.038	0.0	0.038	0.033	0.005	1.005	2.9
BAKKEN	0.209	10.00	0.0	10.00	0.021	0.0	0.021	0.003	0.018	2.526	6.3
FROBISHER	1.803	15.00	0.0	15.00	0.270	0.0	0.270	0.153	0.117	16.380	41.2
FROBISHER-ALIDA	0.194	3.50	0.0	3.50	0.007	0.0	0.007	0.007	0.0	0.0	0.0
JURASSIC	0.767	19.40	0.0	19.40	0.149	0.0	0.149	0.103	0.046	7.252	22.6
LOWER WATROUS	0.110	17.00	0.0	17.00	0.019	0.0	0.019	0.014	0.005	0.948	3.0
MIDALE	8.903	4.00	0.0	4.00	0.356	0.0	0.356	0.206	0.150	19.337	49.5
RATCLIFFE	2.067	13.10	0.0	13.10	0.271	0.0	0.271	0.183	0.088	5.759	13.8
TOTAL AREA IV MEDIUM	427.609				61.247	41.359	102.606	74.511	28.095	1610.775	5542.0
AREA IV - LIGHT											
ALAMEDA											
MIDALE (CENTRAL UNIT)	1.170	11.70	24.90	36.60	0.137	0.291	0.428	0.346	0.082	4.383	7.9
MIDALE (EAST UNIT)	4.844	16.00	21.50	37.50	0.775	1.041	1.816	1.365	0.451	17.391	37.1
MIDALE (NORTH UNIT)	0.999	12.00	16.50	28.50	0.120	0.165	0.285	0.237	0.048	2.744	3.3
MIDALE (SOUTH UNIT)	1.791	13.30	11.20	24.50	0.238	0.201	0.439	0.378	0.061	3.343	5.9
MIDALE (NON-UNIT)	1.065	13.50	0.0	13.50	0.144	0.0	0.144	0.084	0.060	7.003	14.5
ALIDA EAST											
ALIDA (UNIT)	11.254	17.50	0.0	17.50	1.969	0.0	1.969	1.692	0.277	16.131	36.1
ALIDA (NON-UNIT)	0.314	10.00	0.0	10.00	0.031	0.0	0.031	0.027	0.004	1.412	3.8
ALIDA WEST											
ALIDA	9.113	22.00	0.0	22.00	2.005	0.0	2.005	1.635	0.370	24.120	57.0

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										OUNGRE
0.080	2.784	6.52	17.9	45.0	1.230	869	1 828	MISSISSIPPIAN	1959	RATCLIFFE (VOLUNTARY UNIT NO. 1)
0.089	0.322	5.18	20.0	45.0	1.230	--	--	--	--	RATCLIFFE (NON-UNIT)
										RALPH
0.064	0.744	4.97	11.0	35.0	1.124	858	1 315	MISSISSIPPIAN	1973	MIDALE
										SHERWOOD
0.088	0.511	7.77	15.8	35.0	1.163	869	1 240	MISSISSIPPIAN	1963	FROBISHER
										SKINNER LAKE
0.119	0.647	4.36	24.0	45.0	1.111	864	1 723	MISSISSIPPIAN	1969	RATCLIFFE
										STOUGHTON
0.055	0.473	4.30	9.8	35.0	1.163	874	1 268	MISSISSIPPIAN	1960	FROBISHER-ALIDA
										STOUGHTON SOUTH
0.036	0.518	8.20	7.6	45.0	1.163	874	1 265	MISSISSIPPIAN	1974	FROBISHER
										TATAGWA
0.088	0.615	20.90	14.7	35.0	1.085	872	1 478	MISSISSIPPIAN	1977	MIDALE
										VIEWFIELD
0.067	0.129	17.07	12.0	35.0	1.163	864	1 270	MISSISSIPPIAN	1969	FROBISHER (VOLUNTARY UNIT NO. 1)
0.064	1.392	15.24	11.4	35.0	1.163	--	--	--	--	FROBISHER (NON-UNIT)
										VIEW HILL
0.051	0.259	5.18	11.5	50.0	1.129	885	1 539	MISSISSIPPIAN	1959	MIDALE
										WAPELLA
0.173	0.518	3.32	25.0	30.0	1.010	897	701	CRET-JURASSIC	1952	WAPELLA SAND
										WEIR HILL
0.053	0.162	10.21	10.8	35.0	1.333	874	1 353	MISSISSIPPIAN	1968	FROBISHER
										WEST INNES
0.050	0.259	5.33	9.0	35.0	1.163	869	1 335	MISSISSIPPIAN	1965	FROBISHER
										WEST KINGSFORD
0.057	0.291	5.36	10.4	35.0	1.196	891	1 485	MISSISSIPPIAN	1955	MIDALE (CULLEN UNIT)
0.063	0.712	5.49	11.6	35.0	1.205	--	--	--	--	MIDALE (NON-UNIT)
										WEYBURN
0.070	0.841	4.27	13.2	40.0	1.124	885	1 417	MISSISSIPPIAN	1954	FROBISHER
										WEYBURN
0.105	21.529	7.83	17.2	31.7	1.124	885	1 402	MISSISSIPPIAN	1954	MIDALE (UNIT)
0.106	2.703	3.66	17.2	31.0	1.124	--	--	--	--	MIDALE (NON-UNIT)
										MISCELLANEOUS
0.068	0.065	7.92	14.0	35.0	1.333	880	--	MISSISSIPPIAN	--	ALIDA
0.058	0.129	2.80	8.2	25.0	1.064	--	--	MISSISSIPPIAN	--	BAKKEN
0.034	0.680	7.80	7.7	50.0	1.124	885	--	MISSISSIPPIAN	--	FROBISHER
0.049	0.065	6.10	10.0	35.0	1.333	874	--	MISSISSIPPIAN	--	FROBISHER-ALIDA
0.173	0.097	4.57	25.0	30.0	1.010	897	--	JURASSIC	--	JURASSIC
0.105	0.049	2.13	18.7	25.0	1.333	--	--	JURASSIC	--	LOWER WATROUS
0.058	1.248	12.30	13.0	50.0	1.124	885	--	MISSISSIPPIAN	--	MIDALE
0.045	0.486	9.45	9.3	35.0	1.333	869	--	MISSISSIPPIAN	--	RATCLIFFE

AREA IV - LIGHT

										ALAMEDA
0.068	0.680	2.53	16.3	42.8	1.376	823	1 347	MISSISSIPPIAN	1956	MIDALE (CENTRAL UNIT)
0.074	2.363	2.77	17.2	40.8	1.376	--	--	--	--	MIDALE (EAST UNIT)
0.069	0.421	3.44	16.6	42.7	1.376	--	--	--	--	MIDALE (NORTH UNIT)
0.059	0.906	3.35	14.5	45.0	1.351	--	--	--	--	MIDALE (SOUTH UNIT)
0.063	0.583	2.90	15.0	42.0	1.376	--	--	--	--	MIDALE (NON-UNIT)
										ALIDA EAST
0.087	1.619	7.99	16.5	30.0	1.333	823	1 121	MISSISSIPPIAN	1954	ALIDA (UNIT)
0.081	0.049	7.92	16.7	35.0	1.333	--	--	--	--	ALIDA (NON-UNIT)
										ALIDA WEST
0.074	1.263	9.75	14.3	31.0	1.333	828	1 143	MISSISSIPPIAN	1955	ALIDA

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
		PER CENT			M3 X 1 000 000						
ARCOLA											
FROBISHER-ALIDA	5.276	19.60	0.0	19.60	1.034	0.0	1.034	0.797	0.237	14.181	27.3
BROWNING											
FROBISHER-ALIDA	6.279	17.50	0.0	17.50	1.099	0.0	1.099	0.711	0.388	20.285	42.7
CANTAL											
FROBISHER-ALIDA (VOL UNIT NO. 1)	0.183	29.50	0.0	29.50	0.054	0.0	0.054	0.039	0.015	1.069	1.9
FROBISHER-ALIDA (NON-UNIT)	1.906	42.00	0.0	42.00	0.801	0.0	0.801	0.703	0.098	8.028	17.8
CARNDUFF											
FROBISHER	2.573	22.00	0.0	22.00	0.566	0.0	0.566	0.471	0.095	4.775	10.3
CARNDUFF											
MIDALE (EAST UNIT)	7.617	15.00	21.50	36.50	1.143	1.638	2.781	2.527	0.254	21.989	54.4
MIDALE (WEST UNIT)	3.448	13.00	29.00	42.00	0.448	1.000	1.448	1.361	0.087	7.877	16.2
MIDALE (VOLUNTARY UNIT NO. 1)	0.417	5.20	9.20	14.40	0.022	0.038	0.060	0.041	0.019	1.183	1.5
MIDALE (NON-UNIT)	1.274	19.00	4.00	23.00	0.242	0.051	0.293	0.167	0.126	12.792	43.5
CLARELAW											
FROBISHER-ALIDA (KISBEY VOL.UNIT)	0.519	22.50	0.0	22.50	0.117	0.0	0.117	0.074	0.043	5.034	11.5
FROBISHER-ALIDA (NON-UNIT)	0.472	25.50	0.0	25.50	0.120	0.0	0.120	0.072	0.048	3.402	10.1
CRYSTAL HILL											
SOURIS VALLEY	0.990	6.40	0.0	6.40	0.063	0.0	0.063	0.061	0.002	1.256	1.6
DALESBORO											
FROBISHER-ALIDA	0.174	15.00	0.0	15.00	0.026	0.0	0.026	0.024	0.002	0.893	2.4
EAST PINTO											
FROBISHER	0.024	5.00	0.0	5.00	0.001	0.0	0.001	0.0	0.001	0.0	0.0
EAST PINTO											
MIDALE	0.055	6.00	0.0	6.00	0.003	0.0	0.003	0.002	0.001	0.072	0.2
EDENVALE											
TILSTON	0.873	7.90	0.0	7.90	0.069	0.0	0.069	0.056	0.013	2.033	4.9
ELMORE											
FROBISHER (VOLUNTARY UNIT)	4.963	28.00	12.70	40.70	1.390	0.630	2.020	1.522	0.498	28.840	55.2
FROBISHER (NON-UNIT)	0.548	7.50	0.0	7.50	0.041	0.0	0.041	0.011	0.030	2.296	8.6
ELMORE											
MIDALE	0.294	21.00	0.0	21.00	0.062	0.0	0.062	0.058	0.004	1.032	3.1
FLORENCE											
FROBISHER	0.568	21.00	0.0	21.00	0.119	0.0	0.119	0.101	0.018	2.506	3.8
FRYS											
TILSTON-SOURIS VALLEY	2.411	5.00	0.0	5.00	0.121	0.0	0.121	0.078	0.043	5.211	13.0
GAINSBOROUGH											
FROBISHER-ALIDA (VOL UNIT)	1.089	10.00	2.40	12.40	0.109	0.026	0.135	0.116	0.019	3.335	8.4
FROBISHER-ALIDA (NON-UNIT)	2.024	5.40	0.0	5.40	0.109	0.0	0.109	0.088	0.021	4.659	12.7
GLEN EWEN											
FROBISHER	1.349	12.50	0.0	12.50	0.169	0.0	0.169	0.108	0.061	4.657	9.0
GLEN EWEN											
MIDALE (UNIT)	6.007	11.00	7.00	18.00	0.661	0.420	1.081	0.940	0.141	7.786	19.1
HASTINGS											
FROBISHER (UNIT)	2.378	28.60	2.00	30.60	0.680	0.048	0.728	0.646	0.082	5.606	11.9
FROBISHER (VOL UNIT NO. 1)	4.716	17.00	6.50	23.50	0.802	0.307	1.109	0.970	0.139	11.115	20.4
FROBISHER (VOL UNIT NO. 2)	5.745	11.00	2.80	13.80	0.632	0.161	0.793	0.736	0.057	5.882	11.5
FROBISHER (NON-UNIT)	8.368	22.20	0.0	22.20	1.858	0.0	1.858	1.569	0.289	21.376	49.2
HAZELWOOD											
TILSTON	1.207	11.40	0.0	11.40	0.138	0.0	0.138	0.134	0.004	3.076	8.3
HUMMINGBIRD											
BIRDBEAR (VOLUNTARY UNIT NO. 1)	1.173	38.00	0.0	38.00	0.446	0.0	0.446	0.401	0.045	5.911	13.7
INGOLDSBY											
FROBISHER-ALIDA (VOL UNIT)	8.334	35.00	0.0	35.00	2.917	0.0	2.917	2.053	0.864	24.254	53.3
FROBISHER-ALIDA (NON-UNIT)	6.418	30.50	0.0	30.50	1.957	0.0	1.957	1.443	0.514	32.761	85.3
KENOSEE											
TILSTON (VOLUNTARY UNIT)	4.034	51.00	0.0	51.00	2.057	0.0	2.057	1.604	0.453	51.924	112.1

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										ARCOLA
0.080	1.182	5.58	15.5	35.0	1.266	858	1 199	MISSISSIPPIAN	1964	FROBISHER-ALIDA
										BROWNING
0.063	1.392	7.16	13.0	35.0	1.333	848	1 280	MISSISSIPPIAN	1957	FROBISHER-ALIDA
										CANTAL
0.032	0.097	5.91	6.9	35.0	1.393	823	1 196	MISSISSIPPIAN	1956	FROBISHER-ALIDA (VOL UNIT NO. 1)
0.047	0.761	5.33	10.0	35.0	1.393	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										CARNDUFF
0.071	0.793	4.57	14.5	35.0	1.333	885	1 298	MISSISSIPPIAN	1956	FROBISHER
										CARNDUFF
0.076	5.568	1.80	14.4	30.0	1.333	833	1 280	MISSISSIPPIAN	1955	MIDALE (EAST UNIT)
0.068	2.104	2.41	12.9	30.0	1.333	--	--	--	--	MIDALE (WEST UNIT)
0.062	0.218	3.14	11.9	30.0	1.333	--	--	--	--	MIDALE (VOLUNTARY UNIT NO. 1)
0.072	0.831	2.13	14.4	33.0	1.333	--	--	--	--	MIDALE (NON-UNIT)
										CLARILAW
0.059	0.162	5.43	11.4	35.0	1.250	843	1 234	MISSISSIPPIAN	1963	FROBISHER-ALIDA (KISBEY VOL.UNIT)
0.057	0.194	4.27	11.7	35.0	1.333	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										CRYSTAL HILL
0.059	0.324	5.18	11.0	40.0	1.111	853	1 112	MISSISSIPPIAN	1966	SOURIS VALLEY
										DALESBORO
0.055	0.065	4.88	11.2	35.0	1.333	853	1 261	MISSISSIPPIAN	1966	FROBISHER-ALIDA
										EAST PINTO
0.045	0.032	1.68	9.2	35.0	1.333	--	1 542	MISSISSIPPIAN	1974	FROBISHER
										EAST PINTO
0.051	0.032	3.35	10.4	35.0	1.333	--	1 538	MISSISSIPPIAN	1974	MIDALE
										EDENVALE
0.075	0.194	6.00	13.8	40.0	1.111	853	1 126	MISSISSIPPIAN	1970	TILSTON
										ELMORE
0.081	0.874	7.01	15.9	41.1	1.162	864	1 219	MISSISSIPPIAN	1961	FROBISHER (VOLUNTARY UNIT)
0.064	0.129	6.64	13.5	45.0	1.162	--	--	--	--	FROBISHER (NON-UNIT)
										ELMORE
0.056	0.194	2.71	11.4	35.0	1.333	853	1 204	MISSISSIPPIAN	1961	MIDALE
										FLORENCE
0.062	0.259	3.54	12.7	35.0	1.333	843	1 290	MISSISSIPPIAN	1965	FROBISHER
										FRYS
0.074	0.243	13.41	13.7	40.0	1.111	843	974	MISSISSIPPIAN	1958	TILSTON-SOURIS VALLEY
										GAINSBOROUGH
0.070	0.243	6.40	11.5	30.0	1.149	833	1 072	MISSISSIPPIAN	1956	FROBISHER-ALIDA (VOL UNIT)
0.080	0.388	6.52	13.2	30.0	1.149	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										GLEN EWEN
0.057	0.388	6.10	11.7	35.0	1.333	838	1 304	MISSISSIPPIAN	1954	FROBISHER
										GLEN EWEN
0.067	4.209	2.13	13.7	35.0	1.333	828	1 280	MISSISSIPPIAN	1954	MIDALE (UNIT)
										HASTINGS
0.073	0.502	6.49	14.8	37.0	1.276	833	1 200	MISSISSIPPIAN	1955	FROBISHER (UNIT)
0.067	1.105	6.37	13.7	35.0	1.333	--	--	--	--	FROBISHER (VOL UNIT NO. 1)
0.097	0.971	6.10	19.6	37.0	1.276	--	--	--	--	FROBISHER (VOL UNIT NO. 2)
0.062	1.909	7.07	13.7	40.0	1.333	--	--	--	--	FROBISHER (NON-UNIT)
										HAZELWOOD
0.073	0.162	10.21	13.5	40.0	1.111	848	1 149	MISSISSIPPIAN	1963	TILSTON
										HUMMINGBIRD
0.062	0.209	9.05	10.3	28.7	1.186	823	2 326	DEVONIAN	1966	BIRDBEAR (VOLUNTARY UNIT NO. 1)
										INGOLDSBY
0.079	1.214	8.69	13.0	30.0	1.155	874	1 089	MISSISSIPPIAN	1955	FROBISHER-ALIDA (VOL UNIT)
0.079	1.246	6.52	13.0	30.0	1.155	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										KENOSEE
0.083	0.996	4.48	16.0	35.0	1.250	848	1 196	MISSISSIPPIAN	1958	TILSTON (VOLUNTARY UNIT)

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL	DAILY AVERAGE
		PER CENT			M3 X 1 000 000					M3X1 000	M3/DAY
KISBEY											
BIRDBEAR	1.472	10.00	0.0	10.00	0.147	0.0	0.147	0.082	0.065	7.911	15.6
LIGHTNING											
TILSTON	0.413	9.40	0.0	9.40	0.039	0.0	0.039	0.039	0.0	0.0	0.0
MOOSE MOUNTAIN											
TILSTON	1.798	26.00	0.0	26.00	0.467	0.0	0.467	0.406	0.061	5.033	9.0
MORRISVIEW											
FROBISHER-ALIDA	0.990	20.00	0.0	20.00	0.198	0.0	0.198	0.150	0.048	4.462	11.2
NORTH ANTLER											
MIDALE (VOLUNTARY UNIT NO. 1)	0.854	8.00	5.00	13.00	0.068	0.043	0.111	0.091	0.020	2.223	5.1
NORTHGATE											
FROBISHER	0.222	18.00	0.0	18.00	0.040	0.0	0.040	0.038	0.002	0.0	0.0
NORTHGATE											
MIDALE	3.452	8.20	0.0	8.20	0.283	0.0	0.283	0.231	0.052	5.355	17.2
NOTTINGHAM											
ALIDA (NORTH ALIDA BEDS UNIT)	9.399	19.70	0.0	19.70	1.852	0.0	1.852	1.327	0.525	17.954	35.8
ALIDA (NON-UNIT)	3.868	22.40	0.0	22.40	0.866	0.0	0.866	0.743	0.123	8.560	16.4
OAKLEY											
FROBISHER	0.704	14.90	0.0	14.90	0.105	0.0	0.105	0.099	0.006	1.579	4.4
PARKMAN											
SOURIS VALLEY	0.756	21.00	0.0	21.00	0.159	0.0	0.159	0.115	0.044	5.964	12.7
PARKMAN											
TILSTON	0.696	15.00	0.0	15.00	0.104	0.0	0.104	0.098	0.006	1.163	2.6
PARKMAN											
TILSTON-SOURIS VALLEY	23.505	13.10	0.0	13.10	3.079	0.0	3.079	2.670	0.409	50.728	109.0
PARKMAN SOUTH											
TILSTON-SOURIS VALLEY	1.684	9.00	0.0	9.00	0.152	0.0	0.152	0.092	0.060	2.642	5.5
PINTO											
FROBISHER	1.679	21.60	0.0	21.60	0.363	0.0	0.363	0.344	0.019	6.383	14.4
PINTO											
MIDALE (SOUTH PINTO UNIT)	5.674	10.40	2.00	12.40	0.590	0.113	0.703	0.536	0.167	7.212	12.9
MIDALE (NON-UNIT)	4.802	9.30	0.0	9.30	0.447	0.0	0.447	0.425	0.022	6.002	18.7
QUEENSDALE EAST											
FROBISHER-ALIDA (NORTH CANTAL UNIT)	1.704	61.00	0.0	61.00	1.039	0.0	1.039	0.872	0.167	7.410	12.8
FROBISHER-ALIDA (NON-UNIT)	11.122	45.50	0.0	45.50	5.061	0.0	5.061	3.648	1.413	79.431	165.8
QUEENSDALE NORTH											
ALIDA	1.249	17.80	0.0	17.80	0.222	0.0	0.222	0.194	0.028	2.899	5.2
QUEENSDALE WEST											
ALIDA	2.026	36.50	0.0	36.50	0.739	0.0	0.739	0.651	0.088	7.018	16.1
ROCANVILLE											
BAKKEN SAND	1.631	20.00	0.0	20.00	0.326	0.0	0.326	0.251	0.075	8.174	25.8
RONCOTT											
BAKKEN SAND	0.959	9.90	0.0	9.90	0.095	0.0	0.095	0.090	0.005	1.692	4.7
ROSEBANK											
FROBISHER-ALIDA (VOL UNIT NO. 1)	8.659	45.50	0.0	45.50	3.940	0.0	3.940	3.347	0.593	23.915	52.4
ALIDA (NON-UNIT)	6.242	20.00	0.0	20.00	1.248	0.0	1.248	0.855	0.393	17.786	35.7
ROSEBANK SOUTH											
ALIDA	1.048	10.00	0.0	10.00	0.105	0.0	0.105	0.095	0.010	1.442	2.9
SILVERTON											
FROBISHER	0.519	14.50	0.0	14.50	0.075	0.0	0.075	0.067	0.008	1.266	10.3
SOURIS FLAT											
FROBISHER	2.823	23.00	0.0	23.00	0.649	0.0	0.649	0.507	0.142	11.376	23.7
SOUTH FLETWODE											
TILSTON	1.315	30.50	0.0	30.50	0.401	0.0	0.401	0.319	0.082	6.885	14.1
STAR VALLEY											
FROBISHER-ALIDA	3.769	41.00	0.0	41.00	1.545	0.0	1.545	0.956	0.589	34.434	69.7

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										KISBEY
0.076	0.227	8.53	12.0	25.0	1.186	837	1 626	DEVONIAN	1968	BIRDBEAR
										LIGHTNING
0.076	0.178	3.05	14.1	40.0	1.111	848	1 057	MISSISSIPPIAN	1957	TILSTON
										MOOSE MOUNTAIN
0.065	0.550	5.03	12.0	40.0	1.111	853	1 188	MISSISSIPPIAN	1960	TILSTON
										MORRISVIEW
0.071	0.307	4.54	13.6	35.0	1.250	843	1 266	MISSISSIPPIAN	1967	FROBISHER-ALIDA
										NORTH ANTLER
0.059	0.265	5.46	12.2	35.0	1.333	838	1 152	MISSISSIPPIAN	1965	MIDALE (VOLUNTARY UNIT NO. 1)
										NORTHGATE
0.025	0.129	6.89	5.1	35.0	1.333	843	1 585	MISSISSIPPIAN	1963	FROBISHER
										NORTHGATE
0.053	1.295	5.03	12.8	45.0	1.333	833	1 575	MISSISSIPPI	1963	MIDALE
										NOTTINGHAM
0.087	1.182	9.14	16.9	31.2	1.335	838	1 066	MISSISSIPPIAN	1956	ALIDA (NORTH ALIDA BEDS UNIT)
0.080	0.745	6.49	15.5	31.2	1.335	--	--	--	--	ALIDA (NON-UNIT)
										OAKLEY
0.049	0.259	5.55	10.9	40.0	1.333	828	1 196	MISSISSIPPIAN	1955	FROBISHER
										PARKMAN
0.031	0.485	5.03	7.0	50.0	1.111	853	1 188	MISSISSIPPIAN	1964	SOURIS VALLEY
										PARKMAN
0.058	0.194	6.19	10.8	40.0	1.111	853	1 060	MISSISSIPPIAN	1958	TILSTON
										PARKMAN
0.064	3.545	10.36	11.9	40.0	1.111	853	1 097	MISSISSIPPIAN	1959	TILSTON-SOURIS VALLEY
										PARKMAN SOUTH
0.082	0.162	12.68	15.1	40.0	1.111	853	1 095	MISSISSIPPIAN	1969	TILSTON-SOURIS VALLEY
										PINTO
0.046	0.849	4.30	11.2	45.0	1.333	838	1 631	MISSISSIPPIAN	1957	FROBISHER
										PINTO
0.053	2.525	4.24	14.5	45.0	1.517	828	1 615	MISSISSIPPIAN	1957	MIDALE (SOUTH PINTO UNIT)
0.053	2.137	4.24	14.5	45.0	1.517	--	--	--	--	MIDALE (NON-UNIT)
										QUEENSDALE EAST
0.040	0.437	9.75	7.3	35.0	1.182	843	1 173	MISSISSIPPIAN	1956	FROBISHER-ALIDA (NORTH CANTAL UNIT)
0.064	2.590	6.71	11.7	35.0	1.182	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										QUEENSDALE NORTH
0.079	0.324	4.88	16.3	35.0	1.333	843	1 173	MISSISSIPPIAN	1959	ALIDA
										QUEENSDALE WEST
0.054	0.615	6.10	11.0	35.0	1.333	843	1 204	MISSISSIPPIAN	1956	ALIDA
										ROCANVILLE
0.092	0.388	4.57	18.8	35.0	1.333	843	715	MISSISSIPPIAN	1957	BAKKEN SAND
										RONCOTT
0.099	0.324	2.99	14.1	25.0	1.064	833	1 822	MISSISSIPPIAN	1956	BAKKEN SAND
										ROSEBANK
0.065	0.971	13.72	12.5	30.0	1.343	838	1 066	MISSISSIPPIAN	1955	FROBISHER-ALIDA (VOL UNIT NO. 1)
0.071	0.745	11.80	15.0	37.5	1.316	--	--	--	--	ALIDA (NON-UNIT)
										ROSEBANK SOUTH
0.050	0.275	7.62	9.8	35.0	1.266	853	1 074	MISSISSIPPIAN	1954	ALIDA
										SILVERTON
0.050	0.129	8.05	11.0	40.0	1.333	853	1 204	MISSISSIPPIAN	1956	FROBISHER
										SOURIS FLAT
0.065	0.712	6.10	13.3	35.0	1.333	843	1 333	MISSISSIPPIAN	1965	FROBISHER
										SOUTH FLETWODE
0.070	0.457	4.11	13.0	40.0	1.111	864	1 143	MISSISSIPPIAN	1961	TILSTON
										STAR VALLEY
0.073	0.745	6.93	15.0	35.0	1.333	843	1 162	MISSISSIPPIAN	1960	FROBISHER-ALIDA

POOL PRODUCING HORIZON	INITIAL OIL IN PLACE M3X1 000 000	ESTIMATED RECOVERY PRIMARY	ENHANCED	TOTAL PER CENT	INITIAL RESERVES PRIMARY	ENHANCED	TOTAL M3 X 1 000 000	CUMULATIVE PRODUCTION Dec. 31/81	REMAINING RESERVES	1981 PRODUCTION YEARLY TOTAL M3X1 000	DAILY AVERAGE M3/DAY
STEELMAN											
FROBISHER (VOL UNIT NO. 1)	0.896	29.70	0.0	29.70	0.266	0.0	0.266	0.240	0.026	2.342	4.1
FROBISHER (DOUGLASTON UNIT)	0.848	25.70	0.0	25.70	0.218	0.0	0.218	0.187	0.031	1.843	4.4
FROBISHER (NON-UNIT)	6.402	24.00	0.0	24.00	1.536	0.0	1.536	1.450	0.086	13.619	31.0
STEELMAN											
MIDALE (UNIT IA)	18.399	16.00	35.00	51.00	2.944	6.440	9.384	7.771	1.613	82.708	158.0
MIDALE (UNIT II)	16.643	23.00	26.80	49.80	3.828	4.460	8.288	7.288	1.000	63.337	135.6
MIDALE (UNIT III)	11.393	16.00	22.50	38.50	1.823	2.563	4.386	3.717	0.669	41.979	83.0
MIDALE (UNIT IV)	13.368	15.00	26.20	41.20	2.005	3.502	5.507	4.340	1.167	77.241	158.1
MIDALE (UNIT V)	6.465	15.00	11.70	26.70	0.970	0.756	1.726	1.534	0.192	11.964	25.1
MIDALE (UNIT VI)	24.986	16.00	20.50	36.50	3.998	5.122	9.120	8.386	0.734	55.789	109.5
MIDALE (UNIT VII)	2.556	10.40	22.50	32.90	0.266	0.575	0.841	0.679	0.162	10.190	21.1
MIDALE (DOUGLASTON UNIT)	1.944	12.30	13.70	26.00	0.239	0.266	0.505	0.375	0.130	7.227	11.3
MIDALE (LAMPMAN UNIT)	0.933	13.00	12.50	25.50	0.121	0.117	0.238	0.203	0.035	2.536	5.2
MIDALE (NON-UNIT)	6.653	15.00	0.0	15.00	0.998	0.0	0.998	0.494	0.504	52.465	139.1
STORTHOAKS											
ALIDA-TILSTON	3.008	24.70	0.0	24.70	0.743	0.0	0.743	0.559	0.184	10.483	26.2
WARMLEY											
ALIDA (FLETWODE ALIDA VOL UNIT)	0.537	27.00	0.0	27.00	0.145	0.0	0.145	0.110	0.035	6.093	17.3
WHITE BEAR											
TILSTON	2.733	39.50	0.0	39.50	1.080	0.0	1.080	0.824	0.256	13.918	31.8
WHITE BEAR											
TILSTON-SOURIS VALLEY	0.521	15.00	0.0	15.00	0.078	0.0	0.078	0.073	0.005	0.690	2.2
WILDWOOD											
ALIDA	1.249	10.40	0.0	10.40	0.130	0.0	0.130	0.107	0.023	2.591	5.7
WILEMAR											
FROBISHER-ALIDA (VOL UNIT NO. 1)	3.538	17.00	16.90	33.90	0.601	0.598	1.199	0.807	0.392	15.022	33.0
FROBISHER-ALIDA (N CENTRAL VOL UNIT)	1.215	14.00	9.30	23.30	0.170	0.113	0.283	0.191	0.092	3.239	8.0
FROBISHER-ALIDA (N DALES UNIT NO. 1)	1.147	35.00	8.70	43.70	0.401	0.100	0.501	0.468	0.033	4.057	6.6
FROBISHER-ALIDA (KISBEY SD VOL UNIT)	0.257	47.00	0.0	47.00	0.121	0.0	0.121	0.110	0.011	1.495	2.3
FROBISHER-ALIDA (NON-UNIT)	11.132	28.00	0.50	28.50	3.117	0.056	3.173	2.474	0.699	49.750	116.6
WINMORE											
FROBISHER	0.374	7.50	0.0	7.50	0.028	0.0	0.028	0.027	0.001	0.163	0.4
WORKMAN											
FROBISHER (VOLUNTARY UNIT NO. 1)	5.045	16.70	21.30	38.00	0.843	1.075	1.918	1.534	0.384	21.410	31.8
FROBISHER (NON-UNIT)	6.143	21.00	0.0	21.00	1.290	0.0	1.290	0.843	0.447	22.581	54.6
WORKMAN											
MIDALE (VOLUNTARY UNIT NO. 1)	1.044	17.80	5.20	23.00	0.186	0.054	0.240	0.237	0.003	0.435	1.2
MIDALE (VOLUNTARY UNIT NO. 2)	0.838	10.60	8.50	19.10	0.089	0.071	0.160	0.150	0.010	1.603	3.2
MIDALE (NON-UNIT)	1.013	12.00	1.50	13.50	0.122	0.015	0.137	0.131	0.006	1.338	3.1
MISCELLANEOUS											
ALIDA	1.027	17.00	0.0	17.00	0.175	0.0	0.175	0.146	0.029	4.739	13.3
ALIDA TILSTON	0.053	1.50	0.0	1.50	0.001	0.0	0.001	0.001	0.0	0.0	0.0
BAKKEN	1.357	3.50	0.0	3.50	0.047	0.0	0.047	0.034	0.013	2.772	7.3
BIRDBEAR	0.119	6.50	0.0	6.50	0.008	0.0	0.008	0.008	0.0	0.0	0.0
FROBISHER	4.962	7.00	0.0	7.00	0.347	0.0	0.347	0.211	0.136	18.464	48.8
FROBISHER-ALIDA	3.019	10.60	0.0	10.60	0.320	0.0	0.320	0.286	0.034	6.663	10.2
MIDALE	3.544	5.90	0.0	5.90	0.209	0.0	0.209	0.105	0.104	12.989	41.7
RATCLIFFE	0.221	2.50	0.0	2.50	0.006	0.0	0.006	0.004	0.002	0.299	0.4
RED RIVER	0.531	10.00	0.0	10.00	0.053	0.0	0.053	0.041	0.012	1.354	3.4
SOURIS VALLEY	0.280	10.00	0.0	10.00	0.028	0.0	0.028	0.017	0.011	2.798	4.2
TILSTON	1.831	8.00	0.0	8.00	0.146	0.0	0.146	0.107	0.039	4.035	7.7
TILSTON-SOURIS VALLEY	0.467	7.00	0.0	7.00	0.033	0.0	0.033	0.010	0.023	1.428	3.3
WINNIPEGOSIS	0.090	12.00	0.0	12.00	0.011	0.0	0.011	0.005	0.006	1.003	2.6
YEOMENS	0.419	8.00	0.0	8.00	0.034	0.0	0.034	0.015	0.019	1.915	5.5
TOTAL AREA IV LIGHT	398.490				79.673	32.056	111.729	91.085	20.644	1377.095	3018.4
PROVINCIAL TOTAL	2257.868				233.310	149.949	383.259	282.674	100.585	7391.597	21479.9

INITIAL OIL IN PLACE M3/M3	AREA HA X1 000	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	WATER SATURATION PER CENT	FORMATION VOLUME FACTOR	DENSITY OF OIL KG/M3	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL / PRODUCING HORIZON
										STEELMAN
0.042	0.363	5.88	9.2	35.0	1.414	833	1 409	MISSISSIPPIAN	1954	FROBISHER (VOL UNIT NO. 1)
0.049	0.227	7.62	10.1	35.0	1.333	--	--	--	--	FROBISHER (DOUGLASTON UNIT)
0.045	2.509	5.67	9.2	35.0	1.333	--	--	--	--	FROBISHER (NON-UNIT)
										STEELMAN
0.080	5.463	4.21	17.1	35.0	1.389	833	1 399	MISSISSIPPIAN	1954	MIDALE (UNIT IA)
0.085	2.072	9.45	16.5	28.8	1.389	--	--	--	--	MIDALE (UNIT II)
0.088	2.833	4.57	18.9	35.0	1.389	--	--	--	--	MIDALE (UNIT III)
0.077	5.277	3.29	16.4	35.0	1.389	--	--	--	--	MIDALE (UNIT IV)
0.070	2.833	3.26	14.9	35.0	1.389	--	--	--	--	MIDALE (UNIT V)
0.073	6.685	5.12	15.5	35.0	1.389	--	--	--	--	MIDALE (UNIT VI)
0.084	0.728	4.18	17.9	35.0	1.389	--	--	--	--	MIDALE (UNIT VII)
0.059	0.826	3.99	12.6	35.0	1.389	--	--	--	--	MIDALE (DOUGLASTON UNIT)
0.092	0.437	2.32	18.6	31.2	1.389	--	--	--	--	MIDALE (LAMPMAN UNIT)
0.049	3.225	4.21	10.4	35.0	1.389	--	--	--	--	MIDALE (NON-UNIT)
										STORTHOAKS
0.082	0.647	5.67	14.2	35.0	1.124	869	1 066	MISSISSIPPIAN	1962	ALIDA-TILSTON
										WARMLEY
0.062	0.401	2.16	11.8	40.0	1.140	848	1 242	MISSISSIPPIAN	1966	ALIDA (FLETWODE ALIDA VOL UNIT)
										WHITE BEAR
0.066	0.453	9.14	12.3	40.0	1.111	853	1 060	MISSISSIPPIAN	1957	TILSTON
										WHITE BEAR
0.060	0.162	5.36	11.2	40.0	1.111	853	1 188	MISSISSIPPIAN	1963	TILSTON-SOURIS VALLEY
										WILDWOOD
0.070	0.210	8.50	14.4	35.0	1.333	843	1 184	MISSISSIPPIAN	1966	ALIDA
										WILLMAR
0.074	0.809	5.91	12.9	26.0	1.282	843	1 249	MISSISSIPPIAN	1957	FROBISHER-ALIDA (VOL UNIT NO. 1)
0.060	0.324	6.25	11.0	30.0	1.282	--	--	--	--	FROBISHER-ALIDA (N CENTRAL VOL UNIT)
0.050	0.388	5.91	9.9	35.0	1.282	--	--	--	--	FROBISHER-ALIDA (N DALES UNIT NO. 1)
0.093	0.081	3.41	20.0	40.0	1.295	--	--	--	--	FROBISHER-ALIDA (KISBEY SD VOL UNIT)
0.070	2.428	6.55	12.9	30.0	1.282	--	--	--	--	FROBISHER-ALIDA (NON-UNIT)
										WINMORE
0.052	0.227	3.17	11.0	45.0	1.163	869	1 140	MISSISSIPPIAN	1968	FROBISHER
										WORKMAN
0.064	1.748	4.51	13.1	42.1	1.185	848	1 237	MISSISSIPPIAN	1959	FROBISHER (VOLUNTARY UNIT NO. 1)
0.064	1.616	5.94	13.1	42.1	1.184	--	--	--	--	FROBISHER (NON-UNIT)
										WORKMAN
0.081	0.671	1.92	14.8	35.0	1.187	848	1 230	MISSISSIPPIAN	1960	MIDALE (VOLUNTARY UNIT NO. 1)
0.075	0.356	3.14	15.7	39.3	1.274	--	--	--	--	MIDALE (VOLUNTARY UNIT NO. 2)
0.076	0.437	3.05	14.8	35.0	1.274	--	--	--	--	MIDALE (NON-UNIT)
										MISCELLANEOUS
0.068	0.275	5.49	14.0	35.0	1.333	843	--	MISSISSIPPIAN	--	ALIDA
0.078	0.032	2.13	15.9	35.0	1.333	843	--	MISSISSIPPIAN	--	ALIDA TILSTON
0.099	0.225	6.09	14.0	25.0	1.064	819	--	MISSISSIPPIAN	--	BAKKEN
0.068	0.032	5.49	10.7	25.0	1.186	838	--	DEVONIAN	--	BIRDBEAR
0.045	1.363	8.09	9.3	35.0	1.333	843	--	MISSISSIPPIAN	--	FROBISHER
0.059	0.615	8.32	12.1	35.0	1.333	858	--	MISSISSIPPIAN	--	FROBISHER-ALIDA
0.058	0.682	8.96	11.9	35.0	1.333	838	--	MISSISSIPPIAN	--	MIDALE
0.108	0.032	6.40	22.2	35.0	1.333	--	--	MISSISSIPPIAN	--	RATCLIFFE
0.054	0.129	7.62	11.0	35.0	1.333	853	--	ORDOVICIAN	--	RED RIVER
0.053	0.096	5.50	11.7	50.0	1.111	858	--	MISSISSIPPIAN	--	SOURIS VALLEY
0.078	0.308	7.62	14.5	40.0	1.111	849	--	MISSISSIPPIAN	--	TILSTON
0.045	0.170	6.10	10.0	50.0	1.111	843	--	MISSISSIPPIAN	--	TILSTON-SOURIS VALLEY
0.035	0.065	3.96	6.7	35.0	1.250	--	--	DEVONIAN	--	WINNIPEGOSIS
0.045	0.065	14.33	9.3	35.0	1.333	--	--	ORDOVICIAN	--	YEOMENS

RESERVOIR DATA

RESERVES AND

PRODUCTION—GAS

FIVE YEAR GAS SUMMARY

	1977	1978	1979	1980	1981
INITIAL ESTABLISHED* RESERVES (MILLION CUBIC METRES)					
Non-Associated	40 965.3	56 234.3	58 187.1	59 483.6	62 488.8
Associated	1 657.8	1 629.5	1 629.5	1 633.3	1 633.3
Dissolved	5 100.3	4 905.9	4 905.9	5 756.5	5 756.5
PROVINCIAL TOTAL	47 723.4	62 769.7	64 722.5	66 873.4	69 878.2
REMAINING ESTABLISHED* RESERVES (MILLION CUBIC METRES)					
Non-Associated	21 306.5	35 484.2	36 331.4	36 488.4	38 324.1
Associated	830.8	799.7	796.0	794.6	791.5
Dissolved	759.1	456.8	365.9	1 143.5	1 103.3
PROVINCIAL TOTAL	22 896.3	36 740.7	37 493.3	38 426.5	40 218.9
YEARLY PRODUCTION (MILLION CUBIC METRES)					
Non-Associated	1 170.4	1 088.2	1 102.2	1 133.1	1 168.8
Associated	3.9	3.7	2.8	4.1	3.1
Dissolved	98.0	103.7	91.0	72.9	40.3
PROVINCIAL TOTAL	1 272.3	1 195.6	1 196.0	1 210.1	1 212.2
NUMBER OF PRODUCING WELLS					
Non-Associated	660	661	728	755	756
Associated	5	5	5	4	5
PROVINCIAL TOTAL	665	666	733	759	761
AVERAGE DAILY PRODUCTION (MILLION CUBIC METRES)					
Non-Associated	4.764	3.876	3.630	3.686	3.813
Associated	0.017	0.010	0.010	0.019	0.036
Dissolved	0.270	0.284	0.249	0.200	0.110
PROVINCIAL TOTAL	5.051	4.170	3.889	3.905	3.959

* The reserve figures shown prior to 1978 include only established - developed reserves.

TEMPERATURE BASE 15°C

PRESSURE BASE 101.325 kPa

POOL PRODUCING HORIZON	INITIAL GAS IN PLACE MILLION CUBIC METRES	RESERVOIR RECOVERY PER CENT	SURFACE LOSSES PER CENT	INITIAL ESTABLISHED RESERVES MILLION CUBIC METRES	CUMULATIVE PRODUCTION DEC. 31/81 MILLION CUBIC METRES	REMAINING RESERVES DEC. 31/81 MILLION CUBIC METRES	ESTIMATED HEATING VALUE MAJ/M3
NON-ASSOCIATED GAS RESERVES							
BAYHURST							
Viking Sand (Voluntary Unit)	2 567.7	80	5	1 951.4	1 668.4	283.0	37.4
BAYHURST WEST							
Viking Sand (Voluntary Unit)	304.7	75	5	217.1	156.4	60.7	35.3
BEACON HILL							
Mannville Sand	4 541.7	85	5	3 667.4	1 485.6	2 181.8	36.5
BEVERLEY EAST							
Cantuar Sand (Vol. Unit No. 1)	378.0	90	5	323.2	185.7	137.5	36.9
BROCK							
Viking Sand (Unit)	765.2	78	5	567.0	543.7	23.3	36.3
BROCK EAST							
Viking Sand	310.0	35	5	103.1	9.1	94.0	34.6
COLEVILLE-SMILEY							
Viking Sand (Unit)	6 465.7	85	5	5 221.1	4 590.1	631.0	38.4
Viking Sand (Non-Unit)	58.4	80	5	44.4	27.6	16.8	38.3
DODSLAND NORTH							
Viking Sand (Voluntary Unit)	874.5	80	5	564.6	381.8	282.8	40.7
Viking Sand (Non-Unit)	3 429.5	80	5	2 606.4	16.3	2 590.1	40.7
GLIDDEN							
Viking Sand (Voluntary Unit)	484.0	50	5	229.9	73.4	156.5	35.8
GREENAN							
Viking Sand	1 347.9	35	5	448.2	264.2	184.0	35.2
GULL LAKE							
Cantuar Sand	999.9	70	5	664.9	477.1	187.8	38.4
HATTON							
Medicine Hat Sand (Unit)	6 871.3	80	5	5 222.2	3 568.8	1 653.4	35.4
Medicine Hat Sand (Agreement Area)	1 969.2	80	5	1 496.6	590.7	905.9	35.4
Medicine Hat Sand (Non-Unit)	4 110.6	80	5	3 124.1	1 447.5		
HATTON							
Milk River	18 670.1	65	5	11 528.8	2 151.3	10 650.4	35.4
Milk River - Medicine Hat	--	--	--	--	403.6		
HOOSIER							
Viking Sand (Unit)	4 643.4	75	5	3 308.4	2 237.3	1 071.1	37.3
Viking Sand (Vol. Unit No. 4)	134.8	75	5	96.1	20.0	76.1	39.2
Viking Sand (Non-Unit)	51.3	75	5	36.6	--	36.6	37.3
LIEBENTHAL							
Milk River	525.2	65	5	324.3	87.5	236.8	35.4
LLOYDMINSTER							
Colony Sand	246.2	95	5	222.2	213.2	9.0	34.4
MARENGO							
Viking Sand	323.7	80	5	246.0	0.6	245.4	36.3
MILTON							
Viking Sand	1 047.2	85	5	845.6	755.4	90.2	37.3
PIERCELAND							
Mannville Sand	1 581.1	93	5	1 396.9	420.4	976.5	36.5
TOTNES							
Viking Sand (Voluntary Unit)	621.0	80	5	472.0	266.3	205.7	35.5

1981 PRODUCTION

YEARLY TOTAL MILLION CUBIC METRES	DAILY AVERAGE MILLION CUBIC METRES/DAY	DEVELOPED AREA HECTARES	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	AVERAGE CONNATE WATER PER CENT	SPECIFIC GRAVITY	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										NON-ASSOCIATED GAS RESERVES
										BAYHURST
0.302	0.005	8 903	2.71	25.0	35.0	0.580	661	Cretaceous	1958	Viking Sand (Voluntary Unit)
										BAYHURST WEST
10.825	0.036	1 333	1.62	30.5	35.0	0.580	696	Cretaceous	1968	Viking Sand (Voluntary Unit)
										BEACON HILL
45.139	0.213	21 107	4.66	35.0	40.0	0.568	274	Cretaceous	1963	Mannville Sand
										BEVERLEY EAST
6.411	0.032	874	2.53	28.1	33.0	0.583	972	Cretaceous	1965	Cantuar Sand (Voluntary Unit No. 1)
										BROCK
4.418	0.014	5 698	2.19	14.5	40.0	0.588	716	Cretaceous	1951	Viking Sand (Unit)
										BROCK EAST
2.077	0.007	3 108	0.91	24.0	40.0	0.597	720	Cretaceous	1967	Viking Sand
										COLEVILLE-SMILEY
91.420	0.289	19 779	2.99	22.5	32.0	0.600	686	Cretaceous	1951	Viking Sand (Unit)
1.747	0.005	226	2.44	25.5	32.0	0.608	--	--	--	Viking Sand (Non-Unit)
										DODSLAND NORTH
17.199	0.080	4 452	2.01	22.4	35.0	0.615	669	Cretaceous	1953	Viking Sand (Voluntary Unit)
15.132	0.054	14 439	2.52	22.4	35.0	0.621	--	--	--	Viking Sand (Non-Unit)
										GLIDDEN
--	--	5 893	0.88	21.0	40.0	0.584	694	Cretaceous	1953	Viking Sand (Voluntary Unit)
										GREENAN
13.016	0.039	5 952	1.98	24.6	35.0	0.596	655	Cretaceous	1969	Viking Sand
										GULL LAKE
0.957	0.003	2 011	3.14	23.0	30.0	0.598	1057	Cretaceous	1957	Cantuar Sand
										HATTON
194.709	0.552	43 491	3.26	21.0	50.0	0.575	477	Cretaceous	1953	Medicine Hat Sand (Unit)
30.663	0.105	13 727	2.96	21.0	50.0	0.575	--	--	--	Medicine Hat Sand (Agreement Area)
86.191	0.265	48 467	1.75	21.0	50.0	0.575	--	--	--	Medicine Hat Sand (Non-Unit)
										HATTON
343.954	0.944	48 174	6.77	16.0	45.0	0.574	335	Cretaceous	--	Milk River
57.984	0.152	--	--	--	--	--	--	--	--	Milk River - Medicine Hat
										HOOSIER
40.213	0.123	12 468	3.32	23.0	32.0	0.600	732	Cretaceous	1953	Viking Sand (Unit)
0.289	0.001	697	2.56	23.0	32.0	0.604	--	--	--	Viking Sand (Vol. Unit No. 4)
--	--	129	3.81	23.0	32.0	0.600	--	--	--	Viking Sand (Non-Unit)
										LIEBENTHAL
12.083	0.030	7 252	2.07	16.0	45.0	0.578	396	Cretaceous	1974	Milk River
										LLOYDMINSTER
1.717	0.015	1 012	4.16	25.0	30.0	0.568	518	Cretaceous	1935	Colony Sand
										MARENGO
--	--	1 410	1.89	25.0	35.0	0.576	728	Cretaceous	1954	Viking Sand
										MILTON
5.716	0.033	4 897	1.74	25.0	32.0	0.604	732	Cretaceous	1954	Viking Sand
										PIERCELAND
35.941	0.223	3 818	9.27	35.0	40.0	0.564	272	Cretaceous	1969	Mannville Sand
										TOTNES
9.801	0.038	2 072	2.71	25.0	40.0	0.584	613	Cretaceous	1969	Viking Sand (Voluntary Unit)

TEMPERATURE BASE 15°C

PRESSURE BASE 101.325 kPa

POOL PRODUCING HORIZON	INITIAL GAS IN PLACE MILLION CUBIC METRES	RESERVOIR RECOVERY PER CENT	SURFACE LOSSES PER CENT	INITIAL ESTABLISHED RESERVES MILLION CUBIC METRES	CUMULATIVE PRODUCTION DEC. 31/81 MILLION CUBIC METRES	REMAINING RESERVES DEC. 31/81 MILLION CUBIC METRES	ESTIMATED HEATING VALUE MJ/M3
UNITY FIELD							
Unity Sand	312.2	90	5	267.0	267.0	0	33.6
Viking Sand	30.3	50	5	14.4	14.4	0	37.4
WHITESIDE							
Victoria Sand (Voluntary Unit)	527.4	85	5	425.8	371.7	54.1	37.4
MISCELLANEOUS							
Alida	48.9	--	--	39.5	4.8	34.7	39.9
Bakken	1 842.2	--	--	1 400.8	356.0	1 044.8	37.8
Cantuar	226.7	--	--	117.2	51.3	65.9	35.2
Colony	3 003.5	--	--	2.457.2	261.2	2 196.0	34.4
Detrital	810.6	--	--	624.2	--	624.2	38.0
Lloydminster	23.6	--	--	16.3	10.9	5.4	34.4
Mannville	4 071.8	--	--	3 015.7	118.2	2 897.5	37.4
McLaren	1 000.7	--	--	754.5	363.5	391.0	34.4
Medicine Hat	44.1	--	--	33.5	2.9	30.6	35.4
Milk River	2 313.3	--	--	1 428.5	1.6	1 426.9	35.9
Rex	56.8	--	--	43.2	1.8	41.4	34.4
Ribstone Creek	74.7	--	--	51.3	--	51.3	34.4
Roseray	552.9	--	--	260.5	46.6	213.9	37.4
Second White Specks	1 658.9	--	--	1 156.0	6.4	1 149.6	35.4
Spinney Hill	225.2	--	--	168.1	18.4	149.7	32.0
St. Walburg	349.6	--	--	269.1	--	269.1	35.2
Upper Shaunavon	523.8	--	--	372.8	0.6	372.2	36.0
Viking	6 330.4	--	--	4 506.2	224.9	4 281.3	37.4
Waseca	50.2	--	--	38.1	--	38.1	34.2
TOTAL NON-ASSOCIATED	87 400.1			62 488.4	24 164.3	38 324.1	
ASSOCIATED GAS RESERVES							
ABERFELDY							
Sparky Sand	125.4	80	5	95.3	62.7	32.6	34.4
ALIDA EAST							
Alida	833.4	45	5	356.3	160.7	195.6	45.0
ALIDA WEST							
Alida	81.9	85	5	66.1	--	66.1	45.0
AVON HILL							
Viking Sand	10.6	80	5	8.1	--	8.1	37.4
BUFFALO COULEE							
Bakken Sand	3.5	60	5	2.0	2.0	--	37.2
CANTUAR EAST							
Cantuar Sand	914.1	90	3	798.0	569.3	228.7	37.4
EPPING							
Sparky Sand	9.8	80	5	7.4	2.6	4.8	34.4
EUREKA							
Viking	12.5	80	5	9.5	6.8	2.7	40.7
HOOSIER							
Bakken Sand	63.1	90	5	53.9	8.4	45.5	37.9
LASHBURN							
Waseca Sand	11.3	80	5	8.6	3.1	5.5	34.4

1981 PRODUCTION

YEARLY TOTAL MILLION CUBIC METRES	DAILY AVERAGE MILLION CUBIC METRES/DAY	DEVELOPED AREA HECTARES	AVERAGE NET PAY METRES	AVERAGE POROSITY PER CENT	AVERAGE CONNATE WATER PER CENT	SPECIFIC GRAVITY	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										UNITY
--	--	2 161	4.88	26.0	20.0	0.600	632	Cretaceous	1944	Unity Sand
--	--	1 042	1.52	21.6	35.0	0.600	503	Cretaceous	1945	Viking Sand
										WHITESIDE
13.404	0.046	3 885	2.74	35.0	30.0	0.568	229	Cretaceous	1962	Victoria Sand
										MISCELLANEOUS
--	--	129	--	--	--	--	--	Mississippian	--	Alida
37.440	0.131	1 926	--	--	--	--	--	Mississippian	--	Bakken
2.181	0.008	682	--	--	--	--	--	Cretaceous	--	Cantuar
38.607	0.158	5 366	--	--	--	--	--	Cretaceous	--	Colony
--	--	--	--	--	--	--	--	Pre-Cretaceous	--	Detrital
--	--	131	--	--	--	--	--	Cretaceous	--	Lloydminster
0.045	0.001	1 426	--	--	--	--	--	Cretaceous	--	Mannville
32.394	0.115	3 670	--	--	--	--	--	Cretaceous	--	McLaren
2.557	0.018	520	--	--	--	--	--	Cretaceous	--	Medicine Hat
--	--	--	--	--	--	--	--	Cretaceous	--	Milk River
1.020	0.003	294	--	--	--	--	--	Cretaceous	--	Rex
--	--	--	--	--	--	--	--	Cretaceous	--	Ribstone Creek
--	--	1 708	--	--	--	--	--	Cretaceous	--	Roseray
5.453	0.037	518	--	--	--	--	--	Cretaceous	--	Second White Specks
4.904	0.016	583	--	--	--	--	--	Cretaceous	--	Spinney Hill
--	--	--	--	--	--	--	--	Cretaceous	--	St. Walburg
--	--	324	--	--	--	--	--	Jurassic	--	Upper Shaunavon
2.940	0.016	2 067	--	--	--	--	--	Cretaceous	--	Viking
--	--	324	--	--	--	--	--	Cretaceous	--	Waseca
1 168.849	3.813									TOTAL NON-ASSOCIATED
										ASSOCIATED GAS RESERVES
										ABERFELDY
0.076	0.001	678	2.44	25.0	30.0	0.595	529	Cretaceous	1958	Sparky Sand
										ALIDA EAST
--	--	--	5.79	--	--	0.700	1116	Mississippian	1954	Alida
										ALIDA WEST
--	--	--	3.05	--	--	0.700	1137	Mississippian	1955	Alida
										AVON HILL
--	--	40	2.13	25.0	30.0	0.600	678	Cretaceous	1959	Viking Sand
										BUFFALO COULEE
--	--	8	3.05	23.0	25.0	0.565	808	Mississippian	1953	Bakken Sand
										CANTUAR EAST
--	--	1 127	8.69	25.6	41.0	0.599	960	Cretaceous	1957	Cantuar Sand
										EPPING
--	--	65	2.44	25.0	20.0	0.609	610	Cretaceous	1967	Sparky Sand
										EUREKA
0.232	0.001	65	2.01	22.4	35.0	0.622	689	Cretaceous	1954	Viking
										HOOSIER
0.516	0.002	142	2.44	25.0	36.0	0.576	852	Mississippian	1972	Bakken Sand
										LASHBURN
--	--	129	4.51	25.0	30.0	0.592	498	Cretaceous	1966	Waseca Sand

TEMPERATURE BASE 15°C

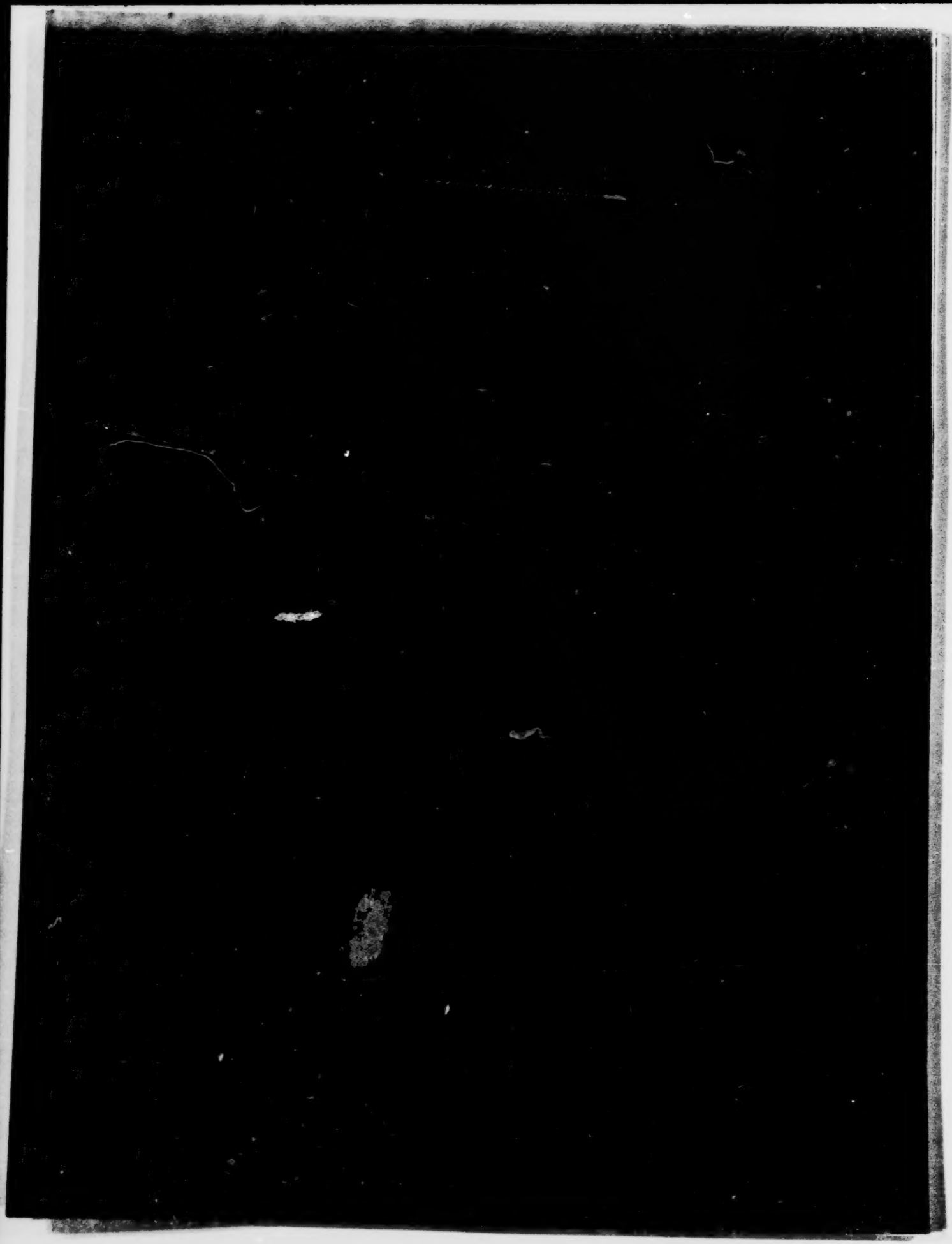
PRESSURE BASE 101.325 kPa

POOL PRODUCING HORIZON	INITIAL GAS IN PLACE MILLION CUBIC METRES	RESERVOIR RECOVERY PER CENT	SURFACE LOSSES PER CENT	INITIAL ESTABLISHED RESERVES MILLION CUBIC METRES	CUMULATIVE PRODUCTION DEC. 31/81 MILLION CUBIC METRES	REMAINING RESERVES DEC. 31/81 MILLION CUBIC METRES	ESTIMATED HEATING VALUE MJ/M3
LONE ROCK							
Sparky Sand	2.5	80	5	1.9	0.2	1.7	34.4
NORTH HOOSIER							
Bakken Sand	11.0	85	5	8.9	4.0	4.9	37.7
NOTTINGHAM							
Alida	211.2	90	5	180.6	--	180.6	45.0
SILVERDALE							
Sparky Sand	27.2	80	5	21.0	12.4	8.6	34.4
SMILEY-DEWAR							
Viking Sand	15.7	80	5	11.9	6.6	5.3	38.3
TANGLEFLAGS							
Sparky Sand	4.7	85	5	3.8	3.0	0.8	34.4
TOTAL ASSOCIATED	2 338.4			1 633.3	841.8	791.5	
DISSOLVED GAS RESERVES							
AREA II				549.8	440.4	109.4	
AREA III				373.0	354.9	18.1	
AREA IV				4 833.7	3 857.9	975.8	
TOTAL DISSOLVED				5 756.5	4 653.2	1 103.3	
PROVINCIAL TOTAL GAS RESERVES				69 878.2	29 659.3	40 218.9	

1981 PRODUCTION

YEARLY TOTAL MILLION CUBIC METRES	DAILY AVERAGE MILLION CUBIC METRES/DAY	DEVELOPED AREA HECTARES	AVERAGE NET PAY METRES	AVERABE POROSITY PER CENT	AVERAGE CONNATE WATER PER CENT	SPECIFIC GRAVITY	PRODUCING DEPTH METRES	PRODUCING SYSTEM	YEAR DISCOVERED	POOL PRODUCING HORIZON
										LONE ROCK
--	--	16	2.44	25.0	30.0	0.600	560	Cretaceous	1947	Sparky Sand
										NORTH HOOSIER
--	--	83	1.52	20.0	25.0	0.600	831	Mississippian	1960	Bakken Sand
										NOTTINGHAM
--	--	--	6.10	--	--	0.700	1061	Mississippian	1956	Alida
										SILVERDALE
--	--	129	3.05	25.0	30.0	0.596	573	Cretaceous	1965	Sparky Sand
										SMILEY-DEWAR
0.392	0.001	65	2.29	25.5	32.0	0.608	694	Cretaceous	1973	Viking Sand
										TANGLEFLAGS
1.882	0.031	24	3.05	25.0	30.0	0.595	511	Cretaceous	1969	Sparky Sand
3.098	0.036									TOTAL ASSOCIATED
										DISSOLVED GAS RESERVES
4.822	0.013									AREA II
--	--									AREA III
35.444	0.097									AREA IV
40.266	0.110									TOTAL DISSOLVED
1 212.213	3.959									PROVINCIAL TOTAL GAS RESERVES

OIL AND GAS UNITS AND ENHANCED RECOVERY PROJECTS



OIL & GAS UNITS

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
AREA I					
ABERFELDY UNIT	HUSKY	SPARKY	12-1-62	5-1-66	WATERFLOOD
					IN-SITU WET COMBUSTION
					STEAMFLOOD
BIG GULLY VOLUNTARY UNIT NO. 1	HUSKY	WASECA & MCLAREN	10-1-70	1-1-71	WATERFLOOD
GOLDEN LAKE VOLUNTARY UNIT	HUSKY	SPARKY & WASECA	1-1-71	11-1-71	WATERFLOOD
GULLY LAKE WASECA VOLUNTARY UNIT NO. 1	HUSKY	WASECA	8-1-71	--	WATERFLOOD
LASHBURN WASECA VOLUNTARY UNIT	HUSKY	WASECA	4-1-68	6-1-71	WATERFLOOD (SUSPENDED)
NORTH DULWICH SPARKY VOLUNTARY UNIT	HUSKY	SPARKY	10-1-70	--	WATERFLOOD
NORTHMINSTER SPARKY VOLUNTARY UNIT	HUSKY	SPARKY	3-1-70	9-1-70	WATERFLOOD
SOUTH ABERFELDY SPARKY VOLUNTARY UNIT	HUSKY	SPARKY	6-1-69	5-1-70	WATERFLOOD
SOUTH EPPING UNIT NO. 1	CANADIAN RESERVE	SPARKY & G.P.	2-1-66	9-1-67	WATERFLOOD
SOUTH WEST EPPING SPARKY VOLUNTARY UNIT NO. 1	CANADIAN RESERVE	SPARKY	1-1-72	7-1-73	WATERFLOOD
TANGLEFLAGS VOLUNTARY UNIT NO. 1	HUSKY	G.P. & LLOYDMINSTER	1-1-80	--	--
TANGLEFLAGS VOLUNTARY UNIT NO. 2	HUDSON'S BAY	LLOYDMINSTER	3-1-81	--	WATERFLOOD
TANGLEFLAGS VOLUNTARY UNIT NO. 3	MOBIL	G.P. & LLOYDMINSTER	2-1-81	--	--
AREA II					
BAYHURST VIKING VOLUNTARY GAS UNIT	SPC	VIKING	11-1-66	--	GAS STORAGE
BROCK VIKING SAND GAS UNIT	HUSKY	VIKING	3-1-54	--	--
COLEVILLE-SMILEY VIKING SAND GAS UNIT	ESSO RESOURCES	VIKING	7-1-55	4-1-72	--
DODSLAND VIKING GAS VOLUNTARY UNIT	DOME	VIKING	11-1-67	1-1-70	--
EAGLE LAKE VIKING VOLUNTARY UNIT	ESSO RESOURCES	VIKING	10-1-66	--	WATERFLOOD
GLENEATH UNIT	HUSKY	VIKING	6-1-66	10-1-67	WATERFLOOD

ENHANCED RECOVERY PROJECTS

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD.	ACTIVE WELLS INJ.	FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
						AREA I
MANNVILLE	INV. 9-SPOT & 5-SPOT	163	63	05-64	2386	ABERFELDY UNIT
GLACIAL DRIFT	INV. 9-SPOT & 5-SPOT	34	6	07-69	42	
SURFACE WATER	INV. 9-SPOT	22	4	02-81	289	
DINA	5-SPOT	33	3 16	10-70	51 364	BIG GULLY VOLUNTARY UNIT NO. 1
DINA	MOD. 9-SPOT	63	2 4	04-71	28 23	GOLDEN LAKE VOLUNTARY UNIT
DINA	INV. & MOD. 9-SPOT	26	10	07-71	122	GULLY LAKE WASECA VOLUNTARY UNIT NO. 1
DINA	5-SPOT	10	--		--	LASHBURN WASECA VOLUNTARY UNIT
GLACIAL DRIFT	--	7	2	10-70	126	NORTH DULWICH SPARKY VOLUNTARY UNIT
DINA	5-SPOT	36	3	10-70	121	NORTHMINSTER SPARKY VOLUNTARY UNIT
DINA	5-SPOT	66	27	09-69	608	SOUTH ABERFELDY SPARKY VOLUNTARY UNIT
MANNVILLE	INV. 9-SPOT	68	26	08-66	1 065	SOUTH EPPING UNIT NO. 1
DINA	INV. 9-SPOT	44	13	03-72	394	SOUTH WEST EPPING SPARKY VOLUNTARY UNIT NO. 1
--	--	28 11	-- --	--	--	TANGLEFLAGS VOLUNTARY UNIT NO. 1
SURFACE WATER	INV. 9-SPOT	21	--	--	--	TANGLEFLAGS VOLUNTARY UNIT NO. 2
-- --	-- --	8 33	-- --	-- --	-- --	TANGLEFLAGS VOLUNTARY UNIT NO. 3
						AREA II
--	--	--	--	--	--	BAYHURST VIKING VOLUNTARY GAS UNIT
--	--	2	--	--	--	BROCK VIKING SAND GAS UNIT
--	--	38	--	--	--	COLEVILLE-SMILEY VIKING SAND GAS UNIT
--	--	12	--	--	--	DODSLAND VIKING GAS VOLUNTARY UNIT
BELLY RIVER	INV. 9-SPOT	113	22	01-67	265	EAGLE LAKE VIKING VOLUNTARY UNIT
BELLY RIVER	INV. 9-SPOT	91	29	10-66	225	GLENEATH UNIT

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
GLIDDEN VIKING GAS VOLUNTARY UNIT NO. 1	HUSKY	VIKING	9-1-72	--	--
HOOSIER BAKKEN SAND VOL. UNIT NO. 1	DOME	BAKKEN	3-1-81	--	WATERFLOOD
HOOSIER VIKING SAND GAS UNIT	UNITED CANSO	VIKING	8-1-57	--	--
LUCKY HILLS VIKING SAND VOLUNTARY GAS UNIT	GOLDEN EAGLE	VIKING	6-1-71	--	--
NORTH EUREKA UNIT	UNITED CANSO	VIKING	9-1-65	12-1-71	WATERFLOOD
NORTH HOOSIER BAKKEN SAND VOLUNTARY UNIT	DOME	BAKKEN	7-1-70	8-1-73	WATERFLOOD
NORTH HOOSIER BASAL BLAIRMORE VOLUNTARY UNIT	HUSKY	MANNVILLE	1-1-69	5-1-80	WATERFLOOD
PLATO VIKING VOLUNTARY UNIT NO. 1	TRILINK	VIKING	4-1-73	--	WATERFLOOD
SMILEY VIKING GAS VOLUNTARY UNIT NO. 4	WESTERN DECALTA	VIKING	6-1-70	--	--
SOUTH EUREKA UNIT	GOLDEN EAGLE	VIKING	4-1-65	9-1-71	WATERFLOOD
TOTNES VIKING GAS VOLUNTARY UNIT NO. 1	INTER-CITY GAS	VIKING	1-1-71	--	--
WEST BAYHURST VIKING GAS VOLUNTARY UNIT	OLIPHANT	VIKING	2-1-72	--	--
WHITESIDE UNIT	DEL RIO	VIKING	9-1-64	--	WATERFLOOD (SUSPENDED)
WHITESIDE VICTORIA VOLUNTARY GAS UNIT	GOLDEN EAGLE	VICTORIA	1-1-68	--	--
AREA III					
ANTELOPE LAKE UPPER SHAUNAVON VOLUNTARY UNIT	WESTERN DECALTA	UPPER SHAUNAVON	3-1-75	--	WATERFLOOD
BATTRUM UNIT NO. 1	MOBIL	ROSERAY	10-1-64	6-1-69	WATERFLOOD
					IN-SITU WET COMBUSTION
BATTRUM UNIT NO. 2	MOBIL	ROSERAY	10-1-64	--	IN-SITU WET COMBUSTION
BATTRUM UNIT NO. 3	MOBIL	ROSERAY	6-1-66	--	WATERFLOOD
					IN-SITU WET COMBUSTION
BATTRUM UNIT NO. 4	FRANCANA	ROSERAY	6-1-66	--	WATERFLOOD
BEVERLEY UNIT NO. 1	MOBIL	UPPER & LOWER ROSERAY	5-1-66	--	WATERFLOOD

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD./INJ.		FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
--	--	0	--	--	--	GLIDDEN VIKING GAS VOLUNTARY UNIT NO. 1
PRODUCED WATER	--	8	2	01-75	155	HOOSIER BAKKEN SAND VOL. UNIT NO. 1
--	--	16	--	--	--	HOOSIER VIKING SAND GAS UNIT
--	--	6	--	--	--	LUCKY HILLS VIKING SAND VOLUNTARY GAS UNIT
BELLY RIVER	INV. 9-SPOT	50	19	03-63	426	NORTH EUREKA UNIT
RIBSTONE CREEK	LINE DRIVE	20	2	08-70	687	NORTH HOOSIER BAKKEN SAND VOLUNTARY UNIT
LEA PARK	--	15	7	12-66	380	NORTH HOOSIER BASAL BLAIRMORE VOLUNTARY UNIT
BELLY RIVER	INV. 9-SPOT	25	1	01-73	4	PLATO VIKING VOLUNTARY UNIT NO. 1
--	--	1	--	--	--	SMILEY VIKING GAS VOLUNTARY UNIT NO. 4
RIBSTONE CREEK & BELLY RIVER	INV. 9-SPOT	65	19	09-73	216	SOUTH EUREKA UNIT
--	--	2	--	--	--	TOTNES VIKING GAS VOLUNTARY UNIT NO. 1
--	--	1	--	--	--	WEST BAYHURST VIKING GAS VOLUNTARY UNIT
PRODUCED WATER	--	5	0	05-65	--	WHITESIDE UNIT
--	--	3	--	--	--	WHITESIDE VICTORIA VOLUNTARY GAS UNIT
						AREA III
ROSERAY	--	3	1	10-76	9	ANTELOPE LAKE UPPER SHAUNAVON VOLUNTARY UNIT
BELLY RIVER	PERIPHERAL	66	3	03-62	1 025	BATTRUM UNIT NO. 1
--	--		6	10-66		
--	--	8	2	11-65	343	BATTRUM UNIT NO. 2
MANNVILLE	INV. 9-SPOT	20	1	12-66	198	BATTRUM UNIT NO. 3
--	--		2	08-67		
MANNVILLE	INV. 9-SPOT	9	5	08-66	335	BATTRUM UNIT NO. 4
MANNVILLE	PERIPHERAL	19	4	01-66	767	BEVERLEY UNIT NO. 1

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
BONE CREEK UNIT	SASKOIL	UPPER SHAUNAVON	6-1-58	7-1-60	WATERFLOOD
BUTTE VOLUNTARY UNIT	MUSKETEER	UPPER SHAUNAVON	1-1-71	2-1-72	WATERFLOOD
CANTUAR UNIT	MOBIL	CANTUAR & LOWER ROSERAY	10-1-59	--	WATERFLOOD
COVINGTON UNIT NO. 1	MOBIL	UPPER SHAUNAVON	7-1-69	--	WATERFLOOD
DELTA UNIT NO. 1	MOBIL	UPPER SHAUNAVON	4-1-66	6-1-69	WATERFLOOD
DELTA UNIT NO. 2	MOBIL	UPPER SHAUNAVON	8-1-69	--	WATERFLOOD
DOLLARD UNIT	MARATHON	UPPER SHAUNAVON	9-1-55	7-1-72	WATERFLOOD
EAST BEVERLEY VOLUNTARY GAS UNIT NO. 1	MOBIL	CANTUAR	8-1-78	--	--
EAST CANTUAR GAS UNIT	MUSKETEER	CANTUAR & ROSERAY	3-1-75	--	GAS STORAGE
EAST CANTUAR UNIT NO. 1	MOBIL	CANTUAR & ROSERAY	3-1-75	--	WATERFLOOD (CANTUAR & ROSERAY)
EAST CANTUAR UNIT NO. 2	MUSKETEER	ROSERAY & CANTUAR	3-1-75	--	WATERFLOOD (ROSERAY)
EAST DOLLARD VOLUNTARY UNIT	FOCO	UPPER SHAUNAVON	10-1-70	--	WATERFLOOD
FOSTERTON MAIN UNIT	MOBIL	ROSERAY	7-1-58	--	WATERFLOOD
FOSTERTON N.W. UNIT	MOBIL	ROSERAY	7-1-58	9-1-70	WATERFLOOD (SUSPENDED) IN-SITU WET COMBUSTION
GULL LAKE CANTUAR VOLUNTARY UNIT NO. 1	MUSKETEER	CANTUAR	5-1-72	--	WATERFLOOD
GULL LAKE NORTH SHAUNAVON POOL UNIT	MOBIL	UPPER SHAUNAVON	10-1-58	--	WATERFLOOD
GULL LAKE UPPER SHAUNAVON VOLUNTARY UNIT NO. 1	MUSKETEER	UPPER SHAUNAVON	5-1-72	--	WATERFLOOD
HATTON GAS UNIT	SPC	MEDICINE HAT	5-1-59	--	--
HAZLET UNIT	NORCEN	ROSERAY	8-1-66	--	--
ILLERBRUN VOLUNTARY UNIT	MUSKETEER	UPPER SHAUNAVON	11-1-66	5-1-67	WATERFLOOD
INSTOW UNIT	MARATHON	UPPER SHAUNAVON	10-1-59	--	WATERFLOOD
JOHNSTON UNIT	MUSKETEER	BASAL CANTUAR & UPPER SHAUNAVON	1-1-63	--	WATERFLOOD (BASAL CANTUAR)
LEITCHVILLE SHAUNAVON VOLUNTARY UNIT	SUNCOR	SHAUNAVON	1-1-68	--	WATERFLOOD

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD./INJ.		FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
BELLY RIVER	PERIPHERAL & INV. 9-SPOT	31	12	05-60	1 141	BONE CREEK UNIT
BELLY RIVER	INV. 9-SPOT	26	6	11-70	143	BUTTE VOLUNTARY UNIT
BELLY RIVER	PERIPHERAL	77 19	25 --	08-60 --	1 607 --	CANTUAR UNIT
ROSERAY SAND	--	4	1	11-68	43	COVINGTON UNIT NO. 1
BELLY RIVER	INV. 9-SPOT	31	11	12-65	682	DELTA UNIT NO. 1
BELLY RIVER	--	14	3	10-69	80	DELTA UNIT NO. 2
VIKING, BELLY R. & MANNVILLE	SEMI-PERIPHERAL	43	19	03-56	2 709	DOLLARD UNIT
--	--	2	--	--	--	EAST BEVERLEY VOLUNTARY GAS UNIT NO. 1
--	--	--	--	--	--	EAST CANTUAR GAS UNIT
MANNVILLE	--	4 8	2 2	09-75 03-69	187 189	EAST CANTUAR UNIT NO. 1
MANNVILLE	--	5 1	1 --	01-76 --	71 --	EAST CANTUAR UNIT NO. 2
BELLY RIVER	--	8	1	10-70	347	EAST DOLLARD VOLUNTARY UNIT
BELLY RIVER	LINE DRIVE	20	17	06-56	1 556	FOSTERTON MAIN UNIT
BELLY RIVER	--	--	--	03-57	--	FOSTERTON N.W. UNIT
--	--	3	1	03-70	263	
BELLY RIVER	PERIPHERAL & MOD. 9-SPOT	8	4	06-70	167	GULL LAKE CANTUAR VOLUNTARY UNIT NO. 1
SURFACE WATER	--	24	4	08-56	538	GULL LAKE NORTH SHAUNAVON POOL UNIT
BELLY RIVER	--	7	1	05-72	66	GULL LAKE UPPER SHAUNAVON VOLUNTARY UNIT NO. 1
--	--	158	--	--	--	HATTON GAS UNIT
--	--	4	--	--	--	HAZLET UNIT
BELLY RIVER	--	6	3	04-66	862	ILLERBRUN VOLUNTARY UNIT
BELLY RIVER & RAVENSCRAG	PERIPHERAL	45	16	12-57	2 974	INSTOW UNIT
SURFACE WATER --	-- --	4 1	2 --	03-63 --	134 --	JOHNSTON UNIT
BELLY RIVER	--	8	4	07-64	54	LEITCHVILLE SHAUNAVON VOLUNTARY UNIT

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
NORTH PREMIER UNIT NO. 1	MOBIL	ROSERAY & UPPER SHAUNAVON	10-1-64	--	WATERFLOOD (ROSERAY)
NORTH PREMIER UNIT NO. 2	MOBIL	PREMIER SAND	7-1-66	--	WATERFLOOD
NORTH PREMIER VOLUNTARY UNIT NO. 4	MOBIL	ROSERAY & UPPER SHAUNAVON	9-1-80	--	WATERFLOOD
NORTH PREMIER UPPER SHAUNAVON VOLUNTARY UNIT	SUNCOR	UPPER SHAUNAVON	11-1-72	--	WATERFLOOD
NORTH RAPDAN UPPER SHAUNAVON VOLUNTARY UNIT	ESSO RESOURCES	UPPER SHAUNAVON	2-1-68	5-1-68	WATERFLOOD
RAPDAN UNIT	MARATHON	UPPER SHAUNAVON	10-1-57	7-1-65	WATERFLOOD
RAPDAN UPPER SHAUNAVON VOLUNTARY UNIT NO. 2	SASKOIL	UPPER SHAUNAVON	4-1-74	--	WATERFLOOD
SUCCESS UNIT	MOBIL	ROSERAY AND FOSTERTON	12-1-57	--	WATERFLOOD
SUCCESS ALPHA UNIT	MOBIL	ROSERAY	7-1-60	--	WATERFLOOD
SUCCESS MAIN UNIT	MOBIL	CANTUAR, ROSERAY AND FOSTERTON	9-1-62	--	WATERFLOOD (ROSERAY)
SUFFIELD UNIT NO. 1	MOBIL	ROSERAY	7-1-66	4-1-72	WATERFLOOD
SUFFIELD UNIT NO. 2	MOBIL	UPPER SHAUNAVON	9-1-70	--	WATERFLOOD
SUFFIELD UNIT NO. 3	MOBIL	ROSERAY & UPPER SHAUNAVON	6-1-71	4-1-72	WATERFLOOD
VERLO ROSERAY SAND UNIT	MOBIL	ROSERAY	9-1-70	10-1-72	WATERFLOOD
WEST FOSTERTON VOLUNTARY UNIT	TEXACO	ROSERAY	3-1-67	--	WATERFLOOD
AREA IV					
ALAMEDA CENTRAL UNIT	GULF	MIDALE	12-1-62	6-1-69	WATERFLOOD
ALAMEDA EAST UNIT	MUSKETEER	MIDALE	8-1-62	9-1-65	WATERFLOOD
ALIDA UNIT	MOBIL	ALIDA	12-1-57	--	--
ANTLER VOLUNTARY UNIT NO. 1	SADELLE	MIDALE	11-1-71	--	WATERFLOOD
BENSON UNIT	SHELL	MIDALE	2-1-63	9-1-67	WATERFLOOD
BENSON MIDALE BEDS VOLUNTARY UNIT NO. 1	MUSKETEER	MIDALE	11-1-67	6-1-68	WATERFLOOD
CANTAL FROBISHER-ALIDA BEDS VOLUNTARY UNIT NO. 1	SASKOIL	FROBISHER-ALIDA	1-1-72	--	--

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD.	ACTIVE WELLS INJ.	FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
MANNVILLE	--	6 1	3 --	07-64	392	NORTH PREMIER UNIT NO. 1
MANNVILLE	--	1	1	06-67	2	NORTH PREMIER UNIT NO. 2
MANNVILLE	PERIPHERAL --	12 15	5 1	02-65 12-80	715 48	NORTH PREMIER VOLUNTARY UNIT NO. 4
MANNVILLE	--	7	2	02-73	26	NORTH PREMIER UPPER SHAUNAVON VOLUNTARY UNIT
BELLY RIVER	--	6	1	07-68	33	NORTH RAPDAN UPPER SHAUNAVON VOLUNTARY UNIT
BELLY RIVER	PERIPHERAL	31	14	11-62	709	RAPDAN UNIT
BELLY RIVER	PARTIAL 5-SPOT	4	1	04-74	38	RAPDAN UPPER SHAUNAVON VOLUNTARY UNIT NO. 2
MANNVILLE	PERIPHERAL	22	4	08-58	882	SUCCESS UNIT
MANNVILLE	--	5	1	09-60	71	SUCCESS ALPHA UNIT
MANNVILLE	PERIPHERAL	11	6	09-56	435	SUCCESS MAIN UNIT
BELLY RIVER	PERIPHERAL	10	2	05-66	271	SUFFIELD UNIT NO. 1
BELLY RIVER	--	13	3	07-70	242	SUFFIELD UNIT NO. 2
BELLY RIVER	PERIPHERAL	10 4	4 1	06-70	575 25	SUFFIELD UNIT NO. 3
MANNVILLE	--	12	3	06-65	898	VERLO ROSERAY SAND UNIT
BELLY RIVER	--	8	2	04-67	256	WEST FOSTERTON VOLUNTARY UNIT
						AREA IV
MANNVILLE	INV. 9-SPOT	14	5	03-60	45	ALAMEDA CENTRAL UNIT
MANNVILLE	INV. 9-SPOT	39	20	12-62	587	ALAMEDA EAST UNIT
--	--	26	--	--	--	ALIDA UNIT
MANNVILLE	--	4	1	11-68	37	ANTLER VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	39	13	11-64	311	BENSON UNIT
MANNVILLE	INV. 9-SPOT	14	1	11-67	16	BENSON MIDALE BEDS VOLUNTARY UNIT NO. 1
--	--	3	--	--	--	CANTAL FROBISHER-ALIDA BEDS VOLUNTARY UNIT NO. 1

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
CARNDUFF VOLUNTARY UNIT NO. 1	FRANCANA	MIDALE	12-1-70	--	WATERFLOOD
CULLEN UNIT	NORCEN	MIDALE	10-1-65	5-1-66	--
DOUGLASTON-FROBISHER BEDS UNIT	DOME	FROBISHER	6-1-64	--	--
DOUGLASTON-MIDALE BEDS UNIT	DOME	MIDALE	6-1-6[illegible]	10-1-67	WATERFLOOD
EAST CARNDUFF UNIT	GULF	MIDALE	5-1-62	11-1-65	WATERFLOOD
ELMORE FROBISHER BEDS VOLUNTARY UNIT NO. 1	ESSO RESOURCES	FROBISHER	12-1-69	--	WATERFLOOD
FLAT LAKE RATCLIFFE VOLUNTARY UNIT NO. 1	PANCANADIAN	RATCLIFFE	8-1-68	9-1-69	WATERFLOOD
FLETWODE ALIDA VOLUNTARY UNIT	CANADIAN OCCIDENTAL	ALIDA	10-1-68	--	--
GAINSBOROUGH FROBISHER-ALIDA VOLUNTARY UNIT	BERRY	FROBISHER-ALIDA	11-1-72	--	WATERFLOOD (FROBISHER)
GLEN EWEN UNIT	MUSKETEER	MIDALE	4-1-63	--	WATERFLOOD
HASTINGS FROBISHER UNIT	UNION	FROBISHER	7-1-71	--	WATERFLOOD
HASTINGS FROBISHER BEDS VOLUNTARY UNIT NO. 1	GULF	FROBISHER	1-1-70	--	WATERFLOOD
HASTINGS FROBISHER BEDS VOLUNTARY UNIT NO. 2	SASKOIL	FROBISHER	10-1-70	--	WATERFLOOD
HUMMINGBIRD BIRDBEAR VOLUNTARY UNIT NO. 1	HUDSON'S BAY	BIRDBEAR	12-1-68	--	--
HUMMINGBIRD RATCLIFFE VOLUNTARY UNIT NO. 1	HUDSON'S BAY	RATCLIFFE	12-1-68	--	WATERFLOOD
HUNTOON MIDALE BEDS VOLUNTARY UNIT NO. 1	TEXACO	MIDALE	2-1-74	--	WATERFLOOD
INGOLDSBY MISSION CANYON VOLUNTARY UNIT	ESSO RESOURCES	ALIDA	9-1-66	--	--
KENOSEE TILSTON BEDS VOLUNTARY UNIT	MARATHON	TILSTON	9-1-69	--	--
KISBEY UPPER HASTINGS VOLUNTARY UNIT NO. 1	DAG RESOURSES	UPPER HASTINGS	4-1-74	--	--
LAKE ALMA VOLUNTARY UNIT	PANCANADIAN	RATCLIFFE	4-1-69	--	WATERFLOOD
LAMPMAN UNIT	GULF	MIDALE	3-1-64	10-1-67	WATERFLOOD
LOST HORSE HILL FROBISHER-ALIDA BEDS VOLUNTARY UNIT NO. 1	ESSO RESOURCES	FROBISHER-ALIDA	1-1-71	--	--
MIDALE UNIT	SHELL	MIDALE	8-1-62	9-1-67	WATERFLOOD
NORTH ALAMEDA UNIT	GULF	MIDALE	5-1-63	--	WATERFLOOD

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD./INJ.		FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
RAVENSCRAG	--	4	1	05-71	35	CARNDUFF VOLUNTARY UNIT NO. 1
--	--	8	--	--	--	CULLEN UNIT
--	--	4	--	--	--	DOUGLASTON-FROBISHER BEDS UNIT
MANNVILLE	LINE DRIVE	12	7	06-64	141	DOUGLASTON-MIDALE BEDS UNIT
MANNVILLE	INV. 9-SPOT	110	18	07-62	640	EAST CARNDUFF UNIT
MANNVILLE	INV. 9-SPOT	26	3	11-70	130	ELMORE FROBISHER BEDS VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	27	7	10-68	468	FLAT LAKE RATCLIFFE VOLUNTARY UNIT NO. 1
--	--	3	--	--	--	FLETWODE ALIDA VOLUNTARY UNIT
PRODUCED WATER	--	8	1	08-73	107	GAINSBOROUGH FROBISHER-ALIDA VOLUNTARY UNIT
MANNVILLE	INV. 9-SPOT	35	5	10-63	298	GLEN EWEN UNIT
MANNVILLE	INV. 9-SPOT	10	2	10-67	106	HASTINGS FROBISHER UNIT
MANNVILLE	PERIPHERAL	29	5	11-66	141	HASTINGS FROBISHER BEDS VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT & PERIPHERAL	21	2	11-66	167	HASTINGS FROBISHER BEDS VOLUNTARY UNIT NO. 2
--	--	2	--	--	--	HUMMINGBIRD BIRDBEAR VOLUNTARY UNIT NO. 1
MANNVILLE	--	9	2	12-67	139	HUMMINGBIRD RATCLIFFE VOLUNTARY UNIT NO. 1
PRODUCED WATER	--	19	5	09-74	44	HUNTOON MIDALE BEDS VOLUNTARY UNIT NO. 1
--	--	38	--	--	--	INGOLDSBY MISSION CANYON VOLUNTARY UNIT
--	--	30	--	--	--	KENOSEE TILSTON BEDS VOLUNTARY UNIT
--	--	4	--	--	--	KISBEY UPPER HASTINGS VOLUNTARY UNIT NO. 1
MANNVILLE	--	5	3	06-70	320	LAKE ALMA VOLUNTARY UNIT
MANNVILLE	INV. 9-SPOT	9	3	04-64	43	LAMPMAN UNIT
--	--	24	--	--	--	LOST HORSE HILL FROBISHER-ALIDA BEDS VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	253	80	06-60	3 395	MIDALE UNIT
MANNVILLE	PERIPHERAL	7	2	12-59	25	NORTH ALAMEDA UNIT

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST BOUNDARY REVISION	PROJECTS
NORTH CANTAL UNIT	ESSO RESOURCES	ALIDA	1-1-66	4-1-69	--
NORTH CENTRAL WILLMAR VOLUNTARY UNIT	MARATHON	FROBISHER-ALIDA	3-1-76	--	WATERFLOOD
NORTH DALESBORO UNIT NO. 1	ESSO RESOURCES	FROBISHER-ALIDA	12-1-70	--	WATERFLOOD
NOTTINGHAM NORTH ALIDA BEDS UNIT	MOBIL	ALIDA	10-1-60	--	--
OUNGRE VOLUNTARY UNIT NO. 1	SUNCOR	OUNGRE	1-1-68	12-1-69	WATERFLOOD
QUEENSVILLE WILLMAR KISBEY SAND VOLUNTARY UNIT	GULF	KISBEY SAND	7-1-69	--	--
ROSEBANK FROBISHER ALIDA BEDS VOLUNTARY UNIT NO. 1	ESSO RESOURCES	FROBISHER-ALIDA	3-1-69	7-1-71	--
SOUTH ALAMEDA UNIT	SUNCOR	MIDALE	10-1-65	--	WATERFLOOD
SOUTH PINTO UNIT	DOME	MIDALE	2-1-65	10-1-66	WATERFLOOD
STEELMAN FROBISHER BEDS VOLUNTARY UNIT NO. 1	GULF	FROBISHER	10-1-70	--	--
STEELMAN UNIT NO. 1A	ESSO RESOURCES	MIDALE	7-1-61	4-1-69	WATERFLOOD
STEELMAN UNIT NO. II	ESSO RESOURCES	MIDALE	7-1-61	--	WATERFLOOD
STEELMAN UNIT NO. III	GULF	MIDALE	7-1-61	--	WATERFLOOD
STEELMAN UNIT NO. IV	GULF	MIDALE	7-1-61	4-1-69	WATERFLOOD
STEELMAN UNIT NO. V	SUNCOR	MIDALE	7-1-61	7-1-65	WATERFLOOD
STEELMAN UNIT NO. VI	GULF	MIDALE	7-1-61	9-1-68	WATERFLOOD
STEELMAN UNIT NO. VII	SUNCOR	MIDALE	6-1-62	--	WATERFLOOD
VIEWFIELD VOLUNTARY UNIT NO.1	COMAPLEX	FROBISHER	5-1-74	--	--
WEST CARNDUFF UNIT	ESSO RESOURCES	MIDALE	1-1-61	5-1-62	WATERFLOOD
WEYBURN UNIT	PANCANADIAN	MIDALE	7-1-63	3-1-71	WATERFLOOD
WILLMAR FROBISHER-ALIDA VOLUNTARY UNIT NO. 1	FRANCANA	FROBISHER-ALIDA	1-1-68	--	WATERFLOOD
WORKMAN-FROBISHER VOLUNTARY UNIT NO. 1	SCURRY-RAINBOW	FROBISHER	4-1-67	--	WATERFLOOD
WORKMAN-MIDALE VOLUNTARY UNIT NO. 1	SADELLE	MIDALE	4-1-68	--	WATERFLOOD
WORKMAN-MIDALE VOLUNTARY UNIT NO. 2	SCURRY-RAINBOW	MIDALE	9-1-68	--	WATERFLOOD

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD./INJ.		FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
--	--	11	--	--	--	NORTH CANTAL UNIT
MANNVILLE	--	8	1	11-76	52	NORTH CENTRAL WILLMAR VOLUNTARY UNIT
MANNVILLE	--	10	2	02-71	130	NORTH DALESBORO UNIT NO. 1
--	--	23	--	--	--	NOTTINGHAM NORTH ALIDA BEDS UNIT
MANNVILLE	INV. 9-SPOT	45	10	12-66	303	OUNGRE VOLUNTARY UNIT NO. 1
--	--	3	--	--	--	QUEENSVILLE WILLMAR KISBEY SAND VOLUNTARY UNIT
--	--	29	--	--	--	ROSEBANK FROBISHER ALIDA BEDS VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	12	6	02-63	104	SOUTH ALAMEDA UNIT
MANNVILLE	PERIPHERAL	27	7	02-65	193	SOUTH PINTO UNIT
--	--	8	--	--	--	STEELMAN FROBISHER BEDS VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	104	36	09-58	1 160	STEELMAN UNIT NO. IA
MANNVILLE	INV. 9-SPOT	60	7	02-62	554	STEELMAN UNIT NO. II
MANNVILLE	INV. 9-SPOT	58	19	01-62	1 293	STEELMAN UNIT NO. III
MANNVILLE	INV. 9-SPOT	99	39	02-62	1 307	STEELMAN UNIT NO. IV
MANNVILLE	INV. 9-SPOT	38	21	02-62	211	STEELMAN UNIT NO. V
MANNVILLE	INV. 9-SPOT	107	43	02-62	1 821	STEELMAN UNIT NO. VI
MANNVILLE	INV. 9-SPOT	13	5	10-62	62	STEELMAN UNIT NO. VII
--	--	5	--	--	--	VIEWFIELD VOLUNTARY UNIT NO.1
MANNVILLE	INV. 9-SPOT	29	13	05-61	168	WEST CARNDUFF UNIT
MANNVILLE	INV. 9-SPOT	481	145	04-64	6 682	WEYBURN UNIT
MANNVILLE	--	18	3	02-68	122	WILLMAR FROBISHER-ALIDA VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	30	13	06-67	699	WORKMAN-FROBISHER VOLUNTARY UNIT NO. 1
MANNVILLE	INV. 9-SPOT	5	1	04-68	9	WORKMAN-MIDALE VOLUNTARY UNIT NO. 1
MANNVILLE	--	6	1	09-68	57	WORKMAN-MIDALE VOLUNTARY UNIT NO. 2

NON-UNIT

NAME	OPERATOR	PRODUCING ZONE	EFFECTIVE DATE	LATEST PROJECT REVISION	PROJECTS
AREA I					
CELTIC WASECA SAND	MOBIL	WASECA	12-8-77	--	IN-SITU WET COMBUSTION
EPPING SPARKY SAND (TERMINATED)	CANADIAN RESERVE	SPARKY	7-14-78	9-11-81	PILOT CAUSTIC WATERFLOOD (TERMINATED)
EYEHILL CUMMINGS SAND	MURPHY	CUMMINGS	12-8-77	--	IN-SITU COMBUSTION
GOLDEN LAKE SOUTH SPARKY SAND	HUSKY	SPARKY	11-6-68	9-24-80	IN-SITU WET COMBUSTION
GOLDEN LAKE SOUTH WASECA SAND	HUSKY	WASECA	3-19-81	--	IN-SITU WET COMBUSTION
MISCELLANEOUS LLOYDMINSTER SAND	TEXASGULF	LLOYDMINSTER	2-4-74	3-10-81	CYCLIC STEAM STIMULATION
PIKES PEAK WASECA SAND	HUSKY	WASECA	6-10-81	--	CYCLIC STEAM STIMUATION
AREA II					
BUFFALO COULEE BAKKEN SAND	SASKOIL	BAKKEN	11-28-69	11-23-79	WATERFLOOD
BUFFALO COULEE BAKKEN SAND	PAGE	BAKKEN	11-23-79	7-31-80	WATERFLOOD
COLEVILLE BAKKEN	GENERAL AMERICAN	BAKKEN	12-18-58	6-27-78	WATERFLOOD
SMILEY-DEWAR VIKING	ESSO RESOURCES	VIKING	9-22-61	5-2-66	WATERFLOOD
SMILEY-DEWAR VIKING	PETRO-CANADA	VIKING	1-30-73	11-1-73	WATERFLOOD
AREA III					
BEVERLEY CANTUAR SAND	MOBIL	CANTUAR	9-29-71	--	PILOT WATERFLOOD
LEON LAKE SHAUNAVON	MARATHON	SHAUNAVON	5-5-64	10-17-68	PILOT WATERFLOOD
AREA IV					
WILLMAR FROBISHER-ALIDA	GULF	FROBISHER-ALIDA	4-5-77	--	PILOT MISCIBLE FLOOD

ENHANCED RECOVERY PROJECTS

WATER SOURCE	INJECTION PATTERN	ACTIVE WELLS PROD.	ACTIVE WELLS INJ.	FIRST INJECTION	AVERAGE INJECTION RATE M^3/DAY	NAME
						AREA I
SURFACE WATER	INV. 9-SPOT	20	5	10-80	--	CELTIC WASECA SAND
SURFACE WATER	INV. 5-SPOT	4	1	11-78	--	EPPING SPARKY SAND (TERMINATED)
GLACIAL DRIFT	INV. 5-SPOT	16	9	06-80	--	EYEHILL CUMMINGS SAND
DINA SAND	INV. 7-SPOT & INV. 9-SPOT	20	5	07-68	24	GOLDEN LAKE SOUTH SPARKY SAND
PRODUCED WATER	INV. 5-SPOT	7	2	--	--	GOLDEN LAKE SOUTH WASECA SAND
SURFACE WATER	--	15	1	07-74	124	MISCELLANEOUS LLOYDMINSTER SAND
SURFACE WATER	--	17	--	--	--	PIKES PEAK WASECA SAND
						AREA II
BELLY RIVER	INV. 9-SPOT	16	1	07-69	71	BUFFALO COULEE BAKKEN SAND
BELLY RIVER	INV. 9-SPOT	30	2	08-80	45	BUFFALO COULEE BAKKEN SAND
BELLY RIVER	INV. 9-SPOT & INV. 5-SPOT	194	91	01-59	3 769	COLEVILLE BAKKEN
BELLY RIVER	INV. 9-SPOT	108	26	02-62	668	SMILEY-DEWAR VIKING
BELLY RIVER	INV. 9-SPOT	30	11	03-73	70	SMILEY-DEWAR VIKING
						AREA III
BELLY RIVER	INV. 9-SPOT	8	1	10-71	37	BEVERLEY CANTUAR SAND
RAVENSCRAG	--	3	1	08-64	12	LEON LAKE SHAUNAVON
						AREA IV
PRODUCED WATER	INV. 5-SPOT	4	1	12-77	63	WILLMAR FROBISHER-ALIDA

DEVELOPMENT AND

PRODUCING DATA

OIL POOLS

POOL NAME	PRODUCTION WELLS CAPABLE	PRODUCTION WELLS ON	PRODUCTION AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	SPACING REGULATIONS TARGET AREA
ABERFELDY SPARKY SAND	349	274	2.2	SOLUTION GAS DRIVE WATER DRIVE PART. GAS CAP DRIVE	WATERFLOOD IN: (1)ABERFELDY UNIT (2)SOUTH ABERFELDY SPARKY VOLUNTARY UNIT IN SITU WET COMBUSTION IN: ABERFELDY UNIT STEAMFLOOD IN: ABERFELDY UNIT	1 EXCEPT: (A)TWP 49, RGE 26, SEC: NW1/4-4, N1/2-5,8,9,W1/2-10,SW1/4-15,16,17, E1/2&NW1/4-18,20,21,28,29. TWP 48, RGE 27, SEC: N1/2-35, NW1/4-36. TWP 49, RGE 27, SEC: 1,2,11,12. WHERE: 1 (B)TWP 49, RGE 27, SEC: 14,15, NE1/4-21,22,23,27,28. WHERE: 1	SE 1/4 OF LSD. NW 1/4 OF LSD. NE 1/4 OF LSD.
ALAMEDA MIDALE BEDS	97	67	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)ALAMEDA CENTRAL UNIT (2)ALAMEDA EAST UNIT (3)NORTH ALAMEDA UNIT (4)SOUTH ALAMEDA UNIT	2	ODD NUMBERED LSDS.
ALIDA EAST ALIDA BEDS	34	28	1.4	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
ALIDA WEST ALIDA BEDS	30	30	1.8	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
ALSASK BASAL BLAIRMORE SAND	3	3	1.1	SOLUTION GAS DRIVE	NONE	1 EXCEPT: TWP 29, RGE 29, SEC: NW1/4-10, W1/2-15,SW1/4-22.(SEE POOL REGULATIONS FOR FRACTIONAL DRAINAGE UNITS)	CENTER OF LSD.
ANTELOPE LAKE UPPER SHAUNAVON	4	3	2.6	SOLUTION GAS DRIVE	WATERFLOOD IN: ANTELOPE LAKE UPPER SHAUNAVON VOLUNTARY UNIT	2	EVEN NUMBERED LSDS.
ARCOLA FROBISHER-ALIDA BEDS	20	16	2.3	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
AVON HILL VIKING	54	39	0.6	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
BALDWINTON SPARKY SAND	19	14	1.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
BATTLE CREEK MADISON	1	1	2.1	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
BATTLE CREEK UPPER SHAUNAVON	2	2	2.0	PART. WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
BATTRUM ROSERAY SAND	163	103	6.8	SOLUTION GAS DRIVE PART. WATER DRIVE	IN SITU WET COMBUSTION IN: (1)BATTRUM UNIT NO. 1 (2)BATTRUM UNIT NO. 2 (3)BATTRUM UNIT NO. 3 WATERFLOOD IN: (1)BATTRUM UNIT NO. 1 (2)BATTRUM UNIT NO. 3 (3)BATTRUM UNIT NO. 4	1 EXCEPT: (A)TWP 18, RGE 16, SEC: 30. TWP 18, RGE 17, SEC: 25,26, E1/2-27,NE1/4-33,34,35,SE1/4&W1/2-36 WHERE: 2 (B)TWP 19, RGE 17, SEC: 1,S1/2-2. WHERE: 2	CENTER OF LSD. EVEN NUMBERED LSDS. ODD NUMBERED LSDS.
BENCH UPPER SHAUNAVON	19	15	1.7	SOLUTION GAS DRIVE	NONE	4 EXCEPT: TWP 11, RGE 18, SEC: W1/2-16. WHERE: 4	NW LSD. OF 1/4 SECTION NE LSD. OF 1/4 SECTION
BENSON MIDALE BEDS	75	69	2.6	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)BENSON UNIT (2)BENSON MIDALE VOLUNTARY UNIT NO. 1	4 EXCEPT: TWP 6, RGE 8, SEC: NE1/4-19,SW1/4-30 W1/2-31. TWP 6, RGE 9, SEC: 21,NE1/4&W1/2-22, N1/2-23,25,26,27,28,29,S1/2-30,36. TWP 6, RGE 10, SEC: E1/2-24,SE1/4-25 WHERE: 2	NW LSD. OF 1/4 SECTION ODD NUMBERED LSDS.
BEVERLEY CANTUAR SAND	33	30	3.4	SOLUTION GAS DRIVE	PILOT WATERFLOOD	2	EVEN NUMBERED LSDS.
BEVERLEY NORTH CANTUAR SAND	31	26	3.1	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
BEVERLEY UPPER ROSERAY SAND	29	23	1.3	SOLUTION GAS DRIVE GAS CAP DRIVE	WATERFLOOD IN: BEVERLEY UNIT NO. 1	1	CENTER OF LSD.
BIG GULLY MCLAREN SAND BIG GULLY WASECA SAND	48	28	2.9	SOLUTION GAS DRIVE	WATERFLOOD IN: BIG GULLY VOLUNTARY UNIT NO. 1	1 EXCEPT: TWP 50, RGE 25, SEC: NE1/4-7,N1/2-8, SW1/4-17,SE1/4-18. WHERE: 1	NW 1/4 OF LSD. NE 1/4 OF LSD.
BONE CREEK UPPER SHAUNAVON	31	31	4.5	SOLUTION GAS DRIVE	WATERFLOOD IN: BONE CREEK UNIT	2 EXCEPT: TWP 11, RGE 19, SEC: W1/2-2,3,E1/2-4 WHERE: 2	EVEN NUMBERED LSDS. ODD NUMBERED LSDS.
BROMHEAD MIDALE BEDS	8	6	2.7	SOLUTION GAS DRIVE	NONE	4	NW LSD. OF 1/4 SECTION
BROWNING FROBISHER-ALIDA BEDS	30	27	1.7	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
BRYANT FROBISHER BEDS	2	2	2.0	SOLUTION GAS DRIVE	NONE	4	NW LSD OF 1/4 SECTION.
BRYANT MIDALE BEDS	14	11	2.2	SOLUTION GAS DRIVE	NONE	4	NW LSD OF 1/4 SECTION.
BUFFALO COULEE BAKKEN SAND	47	30	1.2	SOLUTION GAS DRIVE	WATERFLOOD	1/2	NE & SW 1/4 OF LSD.
BUTTE UPPER SHAUNAVON	27	26	4.6	SOLUTION GAS DRIVE	WATERFLOOD IN: BUTTE VOLUNTARY UNIT	4	NW LSD. OF 1/4 SECTION

POOL NAME	PRODUCTION WELLS CAPABLE	WELLS ON	AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	TARGET AREA
BUZZARD LLOYDMINSTER SAND	17	15	2.4	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
CACTUS LAKE BAKKEN	106	102	5.9	SOLUTION GAS DRIVE	NONE	1	CENTER OF LSD
CANTAL FROBISHER-ALIDA BEDS	22	19	1.2	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
CANTUAR EAST CANTUAR SAND	8	5	4.2	SOLUTION GAS DRIVE GAS CAP DRIVE	WATERFLOOD IN: EAST CANTUAR UNIT NO. 1 GAS STORAGE IN: EAST CANTUAR GAS UNIT	2	SW 1/4 OF EVEN LSDS.
CANTUAR EAST ROSERAY SAND	20	9	2.9	SOLUTION GAS DRIVE GAS CAP DRIVE	WATERFLOOD IN: (1)EAST CANTUAR UNIT NO. 1 (2)EAST CANTUAR UNIT NO. 2 GAS STORAGE IN: EAST CANTUAR GAS UNIT	2	SW 1/4 OF EVEN LSDS.
CANTUAR LOWER ROSERAY SAND	24	11	4.5	WATER DRIVE	NONE	1	SW 1/4 OF LSD.
CANTUAR MAIN CANTUAR SAND	89	77	1.1	SOLUTION GAS DRIVE GAS CAP DRIVE	WATERFLOOD IN: CANTUAR UNIT	1	SW 1/4 OF LSD.
CARNDUFF FROBISHER BEDS	14	12	0.8	WATER DRIVE	NONE	2 EXCEPT: TWP 3, RGE 33, SEC: W1/2-5,6. TWP 3, RGE 34, SEC: 1,2,3,4,9,10,11, W1/2-12,W1/2-14,15,16. WHERE: 2	ODD NUMBERED LSDS. EVEN NUMBERED LSDS.
CARNDUFF MIDALE BEDS	159	152	0.7	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)WEST CARNDUFF UNIT (2)EAST CARNDUFF UNIT (3)CARNDUFF VOLUNTARY UNIT NO. 1	2 EXCEPT: TWP 3, RGE 33, SEC: NE1/4&W1/2-4, 5,6,7,8,9,16,17,S1/2-18. TWP 3, RGE 34, SEC: 1,2,3,4,11,12, S1/2-13. WHERE: 2	ODD NUMBERED LSDS. EVEN NUMBERED LSDS.
CELTIC BLAIRMORE SANDS	4	2	3.2	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
CELTIC SPARKY SAND	12	9	1.9	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
CELTIC WASECA SAND	34	14	1.8	SOLUTION GAS DRIVE	PILOT IN SITU WET COMBUSTION	1	SE1/4 OF LSD.
CLARILAW FROBISHER-ALIDA BEDS	9	9	2.5	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
CLINTONVILLE SHAUNAVON	4	4	1.4	SOLUTION GAS DRIVE	NONE	4	NW LSD. OF 1/4 SECTION
COLEVILLE BAKKEN SAND	233	220	2.9	SOLUTION GAS DRIVE	WATERFLOOD	1/2	NE & SW 1/4 OF LSDS.
COVINGTON UPPER SHAUNAVON	4	4	1.4	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	WATERFLOOD IN: COVINGTON UNIT NO 1	2	EVEN NUMBERED LSDS.
COVINGTON WEST UPPER SHAUNAVON	4	3	2.8	SOLUTION GAS DRIVE	NONE	4	NE LSD. OF 1/4 SECTION
CRYSTAL HILL SOURIS VALLEY BEDS	6	3	0.7	WATER DRIVE	NONE	4	CENTER OF 1/4 SECTION
DALESBORO FROBISHER-ALIDA BEDS	1	1	2.6	PROBABLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
DEE VALLEY EAST SPARKY SAND	12	7	1.4	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
DEE VALLEY EAST WASECA SAND	12	6	2.3	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
DEE VALLEY WASECA SAND	49	27	2.7	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
DELTA UPPER SHAUNAVON	63	47	1.3	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)DELTA UNIT NO. 1 (2)DELTA UNIT NO. 2	2	EVEN NUMBERED LSDS.
DODSLAND VIKING SAND	841	815	1.1	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)GLENEATH UNIT (2)EAGLE LAKE VIKING VOLUNTARY UNIT	2 EXCEPT: TWP 30, RGE 19, SEC: 31,32. TWP 30, RGE 20, SEC: 23,25,26,27, N1/2-28,N1/2-29,N1/2-30,31,32,33,34, 35,36. TWP 30,RGE 21,SEC: 25,26,35,36 TWP 31, RGE 19, SEC: 1,2,3,4,5,6,7, 8,9,10,11,12,S1/2-14,17,18,S1/2-19. TWP 31,RGE 20,SEC: 1 TO 22 INCLUSIVE,S1/2&NW1/4-23,S1/2-24, SW1/4-26,S1/2-27,S1/2-28. WHERE: 1 4	EVEN NUMBERED LSDS. CENTER OF LSD. NW LSD. OF 1/4 SECTION
DOLLARD UPPER SHAUNAVON	58	49	8.9	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)DOLLARD UNIT (2)EAST DOLLARD VOLUNTARY UNIT		
DULWICH SPARKY SAND	138	49	1.0	SOLUTION GAS DRIVE	NONE	1/4	EACH 1/4 OF LSD.
DULWICH NORTH SPARKY SAND	7	7	1.7	SOLUTION GAS DRIVE	WATERFLOOD IN: NORTH DULWICH VOLUNTARY UNIT	1/2	NE & SW 1/4 OF LSDS.
EASTBROOK UPPER SHAUNAVON	2	2	1.8	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
EASTEND SHAUNAVON	10	8	3.3	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
EAST PINTO FROBISHER BEDS	0	0	0.0	PROBABLE WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
EAST PINTO MIDALE BEDS	1	0	0.0	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
EDAM WASECA SAND	18	13	1.9	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
EDENVALE TILSTON BEDS	5	5	1.2	PARTIAL WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.

POOL NAME	PRODUCTION WELLS CAPABLE	WELLS ON	AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	TARGET AREA
ELMORE FROBISHER BEDS	32	29	2.5	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	WATERFLOOD IN: ELMORE FROBISHER BEDS VOLUNTARY UNIT NO. 1	2	ODD NUMBERED LSDS.
ELMORE MIDALE BEDS	2	2	1.3	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
EPPING G.P. SAND	21	12	2.3	SOLUTION GAS DRIVE	WATERFLOOD IN: SOUTH EPPING UNIT NO. 1	1 EXCEPT: (A)TWP 47, RGE 27, SEC: S1/2&NW1/4-31,SW1/4-32. TWP 48, RGE 27, SEC: SW1/4-6. TWP 47, RGE 28, SEC: N1/2-25,34,35,36. TWP 48, RGE 28, SEC: S1/2-1,S1/2-2. WHERE: 1 NW 1/4 OF LSDS. (B)TWP 47, RGE 27, SEC: W1/2-17,18,19,20,S1/2&NW1/4-29,30. WHERE: 1/2 NW & SE 1/4 OF LSDS.	SE 1/4 OF LSDS.
EPPING SPARKY SAND	274	228	2.0	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)SOUTH EPPING UNIT NO. 1 (2)SOUTH WEST EPPING SPARKY VOLUNTARY UNIT NO. 1 PILOT CAUSTIC WATERFLOOD (SUSPENDED)	1 EXCEPT: (A)TWP 47, RGE 27, SEC: W1/2-17,18,19,20,W1/2&SE1/4-29,30,W1/2&SE1/4-31 SW1/4-32. TWP 48, RGE 27, SEC: SW1/4-6. TWP 47, RGE 28, SEC: N1/2-25,34,35,36. TWP 48, RGE 28, SEC: S1/2-1,S1/2-2,SE1/4-3. 1/2 NW & SE 1/4 OF LSDS. 1/2 NW & SE 1/4 OF LSDS.	SE 1/4 OF LSDS.
EUREKA VIKING	127	118	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: (2)SOUTH EUREKA UNIT	1	CENTER OF LSDS.
EYEHILL CUMMINGS SAND	24	10	2.8	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	PILOT IN SITU COMBUSTION	1	CENTER OF LSDS.
FLAT LAKE RATCLIFFE BEDS	29	28	3.7	SOLUTION GAS DRIVE	WATERFLOOD IN: FLAT LAKE RATCLIFFE VOLUNTARY UNIT NO. 1	4 EXCEPT: TWP 1, RGE 16, SEC: S1/2-1,S1/2-2,S1/2-3,S1/2-4,S1/2-5,S1/2-6. WHERE: WELLS LOCATED A MINIMUM DISTANCE OF 1600 FEET FROM U.S. BORDER.	SW LSD. IN 1/4 SECTION
FLORENCE FROBISHER BEDS	7	6	1.2	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
FOREST BANK MANNVILLE SANDS	13	11	1.5	SOLUTION GAS DRIVE	NONE	1 EXCEPT: (A)TWP 48, RGE 24, SEC: 32. TWP 49, RGE 24, SEC: 6. WHERE: 1 SE 1/4 OF LSD. (B)TWP 49, RGE 24, SEC: 7&18. TWP 49, RGE 25, SEC: 12&13. WHERE: 1 NE 1/4 OF LSD.	SW 1/4 OF LSD.
FOREST BANK SPARKY SAND	15	11	3.3	SOLUTION GAS DRIVE	NONE	1 EXCEPT: (A)TWP 48, RGE 24, SEC: 32. TWP 49, RGE 24, SEC: 6. WHERE: 1 SE 1/4 OF LSD. (B)TWP 49, RGE 24, SEC: 7&18. TWP 49, RGE 25, SEC: 12&13. WHERE: 1 NE 1/4 OF LSD.	SW 1/4 OF LSD.
FOREST BANK WASECA SAND	19	7	2.6	SOLUTION GAS DRIVE	NONE	1 EXCEPT: (A)TWP 48, RGE 24, SEC: 32. TWP 49, RGE 24, SEC: 6. WHERE: 1 SE 1/4 OF LSD. (B)TWP 49, RGE 24, SEC: 7&18. TWP 49, RGE 25, SEC: 12&13. WHERE: 1 NE 1/4 OF LSD.	SW 1/4 OF LSD.
FOSTERTON ROSERAY SAND	42	26	3.7	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)FOSTERTON MAIN UNIT (2)FOSTERTON NORTHWEST UNIT (3)WEST FOSTERTON VOLUNTARY UNIT IN SITU WET COMBUSTION IN: FOSTERTON NORTHWEST UNIT	1 EXCEPT: TWP 17, RGE 18, SEC: 4,E1/2-5,E1/2-8,9,LSDS.1,2,3,4,8,9&16-16,LSDS.1&2-17 WHERE: 1 CENTER OF LSD.	SW 1/4 OF LSD.
FREDA LAKE RATCLIFFE BEDS	18	14	2.4	SOLUTION GAS DRIVE	NONE	4	SE LSD. IN 1/4 SECTION
FREEMONT SPARKY SAND	16	12	3.3	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
FREEMONT WASECA SAND	21	18	2.5	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
FREESTONE FROBISHER-ALIDA BEDS	7	7	4.2	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
FRYS TILSTON-SOURIS VALLEY BEDS	8	8	1.9	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
FURNESS SPARKY SAND	43	27	1.8	SOLUTION GAS DRIVE	NONE	1/4	CENTER OF EACH 1/4 LSD.
FUSILIER BAKKEN SAND	11	9	3.8	SOLUTION GAS DRIVE GAS CAP DRIVE	NONE	1	CENTER OF LSD.

POOL NAME	PRODUCTION WELLS CAPABLE	PRODUCTION WELLS ON	PRODUCTION AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	SPACING REGULATIONS TARGET AREA
GAINSBOROUGH FROBISHER-ALIDA BED	18	18	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: GAINSBOROUGH FROBISHER-ALIDA VOLUNTARY UNIT	2	ODD NUMBERED LSDS.
GLEN EWEN FROBISHER BEDS	5	5	3.0	PROBABLE WATER DRIVE	NONE	4	SE LSD. IN 1/4 SECTION
GLEN EWEN MIDALE BEDS	43	17	1.0	SOLUTION GAS DRIVE	WATERFLOOD IN: GLEN EWEN UNIT	4	SE LSD. IN 1/4 SECTION
GOLDEN LAKE NORTH SPARKY SAND	14	10	3.8	SOLUTION GAS DRIVE	WATERFLOOD IN: GOLDEN LAKE VOLUNTARY UNIT	1	SE 1/4 OF LSD.
GOLDEN LAKE NORTH WASECA SAND	95	80	2.6	SOLUTION GAS DRIVE		EXCEPT: TWP 48, RGE 23, SEC: 19,29,30,E1/2& SW1/4-31,32. TWP 48, RGE 24, SEC: NE1/4-24, SE1/4-25. WHERE: 1 SW 1/4 OF LSD.
GOLDEN LAKE SOUTH SPARKY SAND	63	47	3.8	SOLUTION GAS DRIVE	PILOT IN SITU WET COMBUSTION	1	SE 1/4 OF LSD.
GOLDEN LAKE SOUTH WASECA SAND	95	82	3.3	SOLUTION GAS DRIVE	PILOT IN SITU WET COMBUSTION	1	SE 1/4 OF LSD.
GRIFFIN FROBISHER BEDS	7	7	0.8	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
GULL LAKE BASAL CANTUAR SAND	22	13	3.9	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)JOHNSTON UNIT (2)GULL LAKE CANTUAR VOLUNTARY UNIT NO. 1	1	SE 1/4 OF LSD.
GULL LAKE CENTRAL UPPERSHAUNAVON	21	15	2.2	SOLUTION GAS DRIVE	WATERFLOOD IN: GULL LAKE UPPER SHAUNAVON VOLUNTARY UNIT NO. 1	2	SE 1/4 OF EVEN LSDS.
GULL LAKE NORTH UPPER SHAUNAVON	35	26	1.6	SOLUTION GAS DRIVE	WATERFLOOD IN: GULL LAKE NORTH SHAUNAVON UNIT	1	SE 1/4 OF LSDS.
GULL LAKE SOUTH UPPER SHAUNAVON	12	11	1.0	SOLUTION GAS DRIVE	NONE	4	SW LSD. OF 1/4 SECTION EXCEPT: TWP 12, RGE 19, SEC: N1/2-14,N1/2-15 WHERE: 4 NE LSD. OF 1/4 SECTION
GULLY LAKE WASECA SAND	93	71	3.6	SOLUTION GAS DRIVE	WATERFLOOD IN: GULLY LAKE WASECA VOLUNTARY UNIT	1	SE 1/4 OF LSD.
HANDSWORTH ALIDA BEDS	23	18	1.4	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
HARTAVEN FROBISHER-ALIDA BEDS	2	2	2.7	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
HASTINGS FROBISHER BEDS	126	96	1.1	SOLUTION GAS DRIVE WATER DRIVE	WATERFLOOD IN: (1)HASTINGS FROBISHER UNIT (2)HASTINGS VOLUNTARY UNIT NO. 1 (3)HASTINGS VOLUNTARY UNIT NO. 2	2 EXCEPT: TWP 3, RGE 1, SEC: 25,36. WHERE: 2 ODD NUMBERED LSDS.	EVEN NUMBERED LSDS.
HAZELWOOD TILSTON BEDS	5	4	3.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
HAZLET ROSERAY SAND	6	4	1.8	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
HOFFER RATCLIFFE LOWER BEDS	4	4	1.6	SOLUTION GAS DRIVE	NONE	4 EXCEPT: TWP 1, RGE 15, SEC: 28,29,S1/2-32, S1/2-33. WHERE: 4	SE LSD. OF 1/4 SECTION SW LSD. OF 1/4 SECTION
HOFFER RATCLIFFE UPPER BEDS	7	6	2.2	SOLUTION GAS DRIVE	NONE	4 EXCEPT: TWP 1, RGE 15, SEC: 28,29,S1/2-32, S1/2-33. WHERE: 4	SE LSD. OF 1/4 SECTION SW LSD. OF 1/4 SECTION
HOOSIER BAKKEN SAND	19	15	1.6	SOLUTION GAS DRIVE GAS CAP DRIVE	WATERFLOOD IN: HOOSIER BAKKEN SAND VOLUNTARY UNIT NO. 1	1	CENTER OF LSD.
HUME FROBISHER BEDS	7	7	2.2	PROBABLE WATER DRIVE	NONE	4	NW LSD OF 1/4 SECTION.
HUME MIDALE BEDS	19	17	1.1	SOLUTION GAS DRIVE	NONE	4 EXCEPT: TWP 7, RGE 12, SEC: 31,W1/2-32. TWP 8, RGE 12, SEC: N1/2-3,S1/2-5, S1/2-6. WHERE: 2	NW LSD. OF 1/4 SECTION ODD NUMBERED LSDS.
HUMMINGBIRD BIRDBEAR	5	2	6.3	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
HUMMINGBIRD RATCLIFFE BEDS	9	9	2.9	SOLUTION GAS DRIVE	WATERFLOOD IN: HUMMINGBIRD RATCLIFFE VOLUNTARY UNIT NO. 1	2	ODD NUMBERED LSDS.
HUNTOON FROBISHER BEDS	22	13	1.0	WATER DRIVE	NONE	4 EXCEPT: TWP 6, RGE 9, SEC: N1/2-30,31. TWP 6, RGE 10, SEC: N1/2-25,NE1/4-26 E1/2-33,34,35,36. TWP 7, RGE 10, SEC: 4. WHERE: 2	SE LSD. IN 1/4 SECTION ODD NUMBERED LSDS.

POOL NAME	PRODUCTION WELLS CAPABLE	WELLS ON	AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	TARGET AREA
HUNTOON MIDALE BEDS	23	22	1.4	SOLUTION GAS DRIVE	WATERFLOOD IN: HUNTOON MIDALE BEDS VOLUNTARY UNIT NO. 1	4	SE LSD. IN 1/4 SECTION
						EXCEPT: TWP 6, RGE 9, SEC: N1/2-30,31. TWP 6, RGE 10, SEC: N1/2-25,NE1/4-26 E1/2-33,34,35,36. TWP 7, RGE 10, SEC: 4.	
						WHERE: 2	ODD NUMBERED LSDS.
ILLERBRUN UPPER SHAUNAVON	7	7	10.2	SOLUTION GAS DRIVE	WATERFLOOD IN: ILLERBRUN VOLUNTARY UNIT	4	SE LSD. IN 1/4 SECTION
INGOLDSBY FROBISHER-ALIDA BEDS	74	66	2.2	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
INNES FROBISHER BEDS	44	37	3.2	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
INSTOW UPPER SHAUNAVON	51	43	7.9	SOLUTION GAS DRIVE	WATERFLOOD IN: INSTOW UNIT	4	SE LSD. IN 1/4 SECTION
JOHNSTON UPPER SHAUNAVON	1	1	0.7	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
KENOSEE TILSTON BEDS	35	14	8.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
KISBEY BIRDBEAR	7	6	3.0	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
LAKE ALMA RATCLIFFE BEDS	5	5	13.3	SOLUTION GAS DRIVE	WATERFLOOD IN: LAKE ALMA VOLUNTARY UNIT	4	SW LSD. IN 1/4 SECTION
LANDROSE MCLAREN SAND	4	0	0.0	SOLUTION GAS DRIVE	NONE	1/2	NE & SW 1/4 OF LSD.
LANDROSE WASECA SAND	7	1	3.1	SOLUTION GAS DRIVE	NONE	1/2	NE & SW 1/4 OF LSD.
LASHBURN SOUTH SPARKY SAND	9	5	1.6	SOLUTION GAS DRIVE	NONE	1	SW 1/4 OF LSD.
						EXCEPT: TWP 48, RGE 23, SEC: 18. TWP 48, RGE 24, SEC: NW1/4-14, NE1/4-15,E1/2-22,23.	
						WHERE: 1	SE 1/4 OF LSD.
LASHBURN SOUTH WASECA SAND	29	18	2.7	SOLUTION GAS DRIVE	NONE	1	SW 1/4 OF LSD.
						EXCEPT: TWP 48, RGE 23, SEC: 18. TWP 48, RGE 24, SEC: NW1/4-14, NE1/4-15,E1/2-22,23.	
						WHERE: 1	SE 1/4 OF LSD.
LASHBURN WASECA SAND	70	16	3.9	SOLUTION GAS DRIVE	WATERFLOOD IN: LASHBURN WASECA VOLUNTARY UNIT	1	SW 1/4 OF LSD.
LASHBURN WEST SPARKY SAND	30	16	1.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
LEITCHVILLE SHAUNAVON	13	9	2.0	SOLUTION GAS DRIVE	WATERFLOOD IN: LEITCHVILLE SHAUNAVON VOLUNTARY UNIT	4	SW LSD OF 1/4 SECTION
						EXCEPT: TWP 8,RGE 18,SEC: N1/2-31,N1/2-32, NW1/4-33 TWP 9,RGE 18 SEC: W1/2-4,5,6,7,8, 9,10,S1/2-15,S1/2&NW1/4-16,17,18.	
						WHERE: 4	NE LSD OF 1/4 SECTION.
LEON LAKE SHAUNAVON	12	10	1.8	SOLUTION GAS DRIVE	PILOT WATERFLOOD	4	SE LSD. IN 1/4 SECTION
LIGHTNING TILSTON BEDS	0	0	0.0	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
LLOYDMINSTER SPARKY SAND	13	12	3.7	SOLUTION GAS DRIVE	NONE	1/2	NW & SE 1/4 OF LSD.
						EXCEPT: SPECIAL PROVISIONS FOR PART LSDS.	
LONE ROCK SPARKY SAND	64	50	0.8	SOLUTION GAS DRIVE	NONE	1/4	CENTER OF EACH 1/4 LSD.
LOST HORSE HILL FROBISHER-ALIDA	44	43	4.6	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
LOUGHEED MIDALE BEDS	14	14	2.4	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
						EXCEPT: TWP 6, RGE 14, SEC: N1/2-20,29,32.	
						WHERE: 2	EVEN NUMBERED LSDS.
LOVERNA DETRITAL	9	8	1.5	SOLUTION GAS DRIVE	NONE	1	CENTER OF LSDS.
LOW LAKE WASECA SAND	6	5	0.9	SOLUTION GAS DRIVE	NONE	1/2	NE & SW 1/4 OF LSD.
LUCKY HILLS VIKING	18	13	1.0	SOLUTION GAS DRIVE GAS CAP DRIVE	NONE	4	SW LSD. IN 1/4 SECTION
						EXCEPT: TWP 30, RGE 23, SEC: 21.	
						WHERE: 2	EVEN NUMBERED LSDS.
MACKLIN SPARKY SAND	59	45	5.0	SOLUTION GAS DRIVE	NONE	1	CENTER OF LSDS.
MACOUN MIDALE BEDS	13	11	3.4	PARTIAL WATER DRIVE	NONE	4	NW LSD. IN 1/4 SECTION
MACOUN WEST MIDALE BEDS	5	5	7.9	PROBABLE WATER DRIVE	NONE	4	NW LSD OF 1/4 SECTION.
MAIN SUCCESS ROSERAY SAND	23	11	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: SUCCESS MAIN UNIT	1	SW 1/4 OF LSD.
MARSDEN SPARKY SAND	9	2	3.7	SOLUTION GAS DRIVE	NONE	1/4	CENTER OF EACH 1/4 LSD.
MELROSE FROBISHER-ALIDA BEDS	5	3	4.8	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
MIDALE CENTRAL FROBISHER BEDS	12	8	2.8	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
MIDALE CENTRAL MIDALE BEDS	374	286	2.8	SOLUTION GAS DRIVE	WATERFLOOD IN: MIDALE UNIT	2	ODD NUMBERED LSDS.

POOL NAME	PRODUCTION: WELLS CAPABLE	PRODUCTION: WELLS ON	PRODUCTION: AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS: DRAINAGE UNITS (LSDS)	SPACING REGULATIONS: TARGET AREA
MINARD MIDALE BEDS	2	2	2.4	SOLUTION GAS DRIVE	NONE	4	NW LSD OF 1/4 SECTION.
MOOSE MOUNTAIN TILSTON BEDS	11	9	1.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
MOOSE VALLEY TILSTON BEDS	3	3	5.5	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
MORRISVIEW FROBISHER-ALIDA BEDS	6	6	2.0	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
NEILBURG MCLAREN SAND	21	15	5.0	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
NEPTUNE RATCLIFFE BEDS	11	11	3.2	SOLUTION GAS DRIVE	NONE	4	CENTER OF EACH 1/4 SECTION
NORTH ANTLER MIDALE BEDS	6	4	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: ANTLER VOLUNTARY UNIT NO. 1	2	ODD NUMBERED LSDS.
NORTHGATE FROBISHER BEDS	1	0	0.0	PROBABLE WATER DRIVE	NONE	4	SE LSD. IN 1/4 SECTION
NORTHGATE MIDALE BEDS	20	13	1.1	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
NORTH HANDSWORTH ALIDA BEDS	19	19	1.7	PROBABLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
NORTH HOOSIER BAKKEN SAND	34	31	5.0	POSSIBLE WATER DRIVE	WATERFLOOD IN: NORTH HOOSIER BAKKEN SAND VOLUNTARY UNIT	1	CENTER OF LSDS.
NORTH HOOSIER BASAL BLAIRMORE	15	14	4.7	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	WATERFLOOD IN: NORTH HOOSIER BASAL BLAIRMORE VOLUNTARY UNIT	1	CENTER OF LSDS.
NORTHMINSTER SPARKY SAND	47	33	2.3	SOLUTION GAS DRIVE	WATERFLOOD IN: NORTHMINSTER SPARKY VOLUNTARY UNIT	1 EXCEPT: TWP 50, RGE 27, SEC: NW1/4-2,11, LSDS.12,13,14,15&16-12,S1/2&NW1/4-13 14. WHERE: 1	SW 1/4 OF LSD. SE 1/4 OF LSDS.
NORTHMINSTER NORTH G.P. SAND	9	7	1.3	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
NORTHMINSTER NORTH SPARKY SAND	19	14	2.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
NORTH PREMIER ROSERAY SAND	28	20	3.4	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)NORTH PREMIER UNIT NO. 1 (2)NORTH PREMIER UNIT NO. 4	1	SW 1/4 OF LSDS.
NORTH PREMIER UPPER SHAUNAVON	35	28	1.3	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)NORTH PREMIER UPPER SHAUNAVON VOLUNTARY UNIT (2)NORTH PREMIER UNIT NO. 4	1 EXCEPT: TWP 14, RGE 19, SEC: 26,E1/2-27,34, 35. WHERE: 2	SW 1/4 OF LSDS. SW 1/4 OF ODD LSDS.
NOTTINGHAM ALIDA BEDS	42	39	1.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
OAKLEY FROBISHER BEDS	4	4	1.1	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
OUNGRE RATCLIFFE BEDS	49	48	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: OUNGRE VOLUNTARY UNIT NO. 1	4	SE LSD. IN 1/4 SECTION
PARKMAN SOURIS VALLEY BEDS	13	10	1.9	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
PARKMAN TILSTON BEDS	3	3	0.8	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
PARKMAN TILSTON-SOURIS VALLEY	106	74	1.8	WATER DRIVE	NONE	2 EXCEPT: TWP 9,RGE 33,SEC: W1/2&LSDS.7&8-3, LSDS.11&12-10,W1/2-15,S1/2&NW1/4-17,SE1/4-19,SE1/4&N1/2&LSDS.5&6 -30. WHERE: 1	EVEN NUMBERED LSDS. CENTER OF LSD.
PARKMAN SOUTH TILSTON-S. VALLEY	5	4	1.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
PENNANT UPPER SHAUNAVON	6	6	2.4	SOLUTION GAS DRIVE	NONE	2	EVEN NUMBERED LSDS.
PIKES PEAK G.P. SAND	18	12	6.9	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
PIKES PEAK SPARKY SAND	8	2	0.8	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
PIKES PEAK WASECA SAND	25	15	3.3	SOLUTION GAS DRIVE	CYCLIC STEAM STIMULATION	1	SE 1/4 OF LSD.
PINTO FROBISHER BEDS	9	8	2.1	WATER DRIVE	NONE	2 EXCEPT: (A)TWP 1, RGE 4, SEC: W1/2-18,NE1/4& W1/2-19,NW1/4-20,N1/2-29,NE1/4&W1/2-29,30,S1/2&NW1/4-31,32,33. TWP 1, RGE 5, SEC: 1 TO 4, 8 TO 17, 20 TO 29, ALL INCLUSIVE, E1/2& SW1/4-36. WHERE: 4 (B)TWP 2, RGE 4, SEC: N1/2-21, N1/2-22,26,27,34,35. WHERE: 4	EVEN NUMBERED LSDS. NE LSD. IN 1/4 SECTION SW LSD. IN 1/4 SECTION
PINTO MIDALE BEDS	53	23	1.5	SOLUTION GAS DRIVE	WATERFLOOD IN: SOUTH PINTO UNIT	2 EXCEPT: (SEE PINTO FROBISHER BEDS POOL)	EVEN NUMBERED LSDS.
PLATO VIKING	47	25	0.3	SOLUTION GAS DRIVE	WATERFLOOD IN: PLATO VIKING VOLUNTARY UNIT NO. 1	2	EVEN NUMBERED LSDS.

POOL NAME	PRODUCTION WELLS CAPABLE	WELLS ON	AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	TARGET AREA
QUEENSDALE EAST FROBISHER-ALIDA	76	70	2.8	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
QUEENSDALE NORTH ALIDA BEDS	7	7	1.1	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
QUEENSDALE WEST ALIDA BEDS	13	11	1.3	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
RALPH MIDALE BEDS	23	19	1.2	SOLUTION GAS DRIVE	NONE	2	ODD NUMBERED LSDS.
RAPDAN UPPER SHAUNAVON	46	38	7.9	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)RAPDAN UNIT (2)NORTH RAPDAN UPPER SHAUN-AVON VOLUNTARY UNIT (3)RAPDAN UPPER SHAUNAVON VOLUNTARY UNIT NO. 2	4 EXCEPT: TWP 3, RGE 20, SEC: NE1/4-32, NW1/4-33. TWP 4, RGE 20, SEC: W1/2-4,E1/2-5, E1/2-8,W1/2-9,SW1/4-16,SE1/4-17. WHERE: 4	SW LSD. IN 1/4 SECTION NE LSD. IN 1/4 SECTION
RAPDAN WEST SHAUNAVON	13	10	2.6	SOLUTION GAS DRIVE	NONE	4	NE LSD. IN 1/4 SECTION
ROCANVILLE BAAKEN SAND	7	7	3.4	PARTIAL WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
RONCOTT BAAKEN SAND	5	5	1.0	POSSIBLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
ROSEBANK ALIDA BEDS	57	35	2.7	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
ROSEBANK SOUTH ALIDA BEDS	4	3	1.0	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
SHERWOOD FROBISHER BEDS	15	13	3.7	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
SILVERDALE SPARKY SAND	85	35	1.1	SOLUTION GAS DRIVE	NONE	1/4 EXCEPT: TWP 48, RGE 28, SEC: LSDS.1,8,9,&16 -27. LSDS. 1,8,9&16-34. TWP 49, RGE 27, SEC: W1/2-6. TWP 49, RGE 28, SEC: LSDS. 1,8,9&16 -3, LSDS. 1,8,9&16-10, LSDS. 1,8,9 &16-15. WHERE: SPECIAL PROVISIONS FORPART SECTIONS	CENTER OF EACH 1/4 LSD.
SILVERTON FROBISHER BEDS	2	2	2.4	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
SKINNER LAKE RATCLIFFE BEDS	10	8	2.6	SOLUTION GAS DRIVE	NONE	4	NW LSD. IN 1/4 SECTION
SMILEY-DEWAR VIKING	160	147	1.4	SOLUTION GAS DRIVE	WATERFLOOD	1	CENTER OF LSDS.
SOURIS FLAT FROBISHER BEDS	22	16	1.7	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
SOUTH FLETEWODE TILSTON BEDS	8	6	3.0	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
SOUTH SUCCESS ROSERAY SAND	34	26	3.3	SOLUTION GAS DRIVE	WATERFLOOD IN: SUCCESS UNIT	1	SW 1/4 OF LSDS.
STANDARD HILL WASECA SAND	82	75	4.4	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
STAR VALLEY FROBISHER-ALIDA BEDS	27	24	3.4	WATER DRIVE	NONE	2 EXCEPT: TWP 9, RGE 6, SEC: W1/2-13. WHERE: 1	ODD NUMBERED LSDS. CENTER OF LSD.
STEELMAN FROBISHER BEDS	44	39	1.1	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
STEELMAN MIDALE BEDS	615	478	1.8	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)STEELMAN UNIT NO. 1A (2)STEELMAN UNIT NO. 2 (3)STEELMAN UNIT NO. 3 (4)STEELMAN UNIT NO. 4 (5)STEELMAN UNIT NO. 5 (6)STEELMAN UNIT NO. 6 (7)STEELMAN UNIT NO. 7 (8)LAMPMAN UNIT (9)DOUGLASTON MIDALE BEDS UNIT	2	ODD NUMBERED LSDS.
STORTHOAKS ALIDA-TILSTON BEDS	18	17	1.1	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
STOUGHTON FROBISHER-ALIDA BEDS	11	10	2.1	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
STOUGHTON SOUTH FROBISHER BEDS	16	15	1.9	POSSIBLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
SUCCESS ROSERAY SAND ALPHA	6	5	1.6	SOLUTION GAS DRIVE	WATERFLOOD IN: SUCCESS ALPHA UNIT	1	SW 1/4 OF LSDS.
SUFFIELD ROSERAY SAND	24	20	3.1	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)SUFFIELD UNIT NO. 1 (2)SUFFIELD UNIT NO. 3	2 EXCEPT: TWP 14, RGE 19, SEC: 17,E1/2&NW1/4-18,S1/2-19,S1/2-20. WHERE: 1	ODD NUMBERED LSDS. CENTER OF EACH LSD.
SUFFIELD UPPER SHAUNAVON	22	20	1.2	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)SUFFIELD UNIT NO. 2 (2)SUFFIELD UNIT NO. 3	2	ODD NUMBERED LSDS.
TANGLEFLAGS EAST MCLAREN SAND	15	11	2.3	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS G.P. SAND	108	100	3.7	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS LLOYDMINSTER SAND	197	166	1.9	SOLUTION GAS DRIVE	WATERFLOOD IN TANGLEFLAGS VOLUNTARY UNIT NO. 2	1	SE 1/4 OF LSD.
TANGLEFLAGS MANNVILLE SANDS	21	17	1.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.

POOL NAME	PRODUCTION WELLS CAPABLE	WELLS ON	AVE. M3/ DAY WELL	NATURAL DEPLETION MECHANISM	ENHANCED RECOVERY	SPACING REGULATIONS DRAINAGE UNITS (LSDS)	TARGET AREA
TANGLEFLAGS NORTH CUMMINGS	14	8	3.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS NORTH G.P. SAND	6	2	0.3	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS NORTH LLOYD. SAND	26	19	1.4	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS SPARKY SAND	33	25	3.0	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS WEST G.P. SAND	5	3	1.0	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS WEST LLOYD. SAND	20	17	1.8	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TANGLEFLAGS WEST SPARKY SAND	10	7	2.7	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
TATAGWA MIDALE BEDS	18	16	3.4	POSSIBLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
VERLO ROSERAY SAND	12	11	6.3	SOLUTION GAS DRIVE	WATERFLOOD IN: VERLO ROSERAY SAND UNIT	2	EVEN NUMBERED LSDS.
VIEWFIELD FROBISHER BEDS	49	43	3.8	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
VIEW HILL MIDALE BEDS	4	4	2.1	WATER DRIVE	NONE	4	NW LSD. IN 1/4 SECTION
WAPELLA SAND	28	24	3.4	WATER DRIVE	NONE	1	CENTER OF EACH LSD.
WARMLEY ALIDA BEDS	3	3	5.7	PROBABLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
WEIR HILL FROBISHER BEDS	3	3	1.8	PROBABLE WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
WEST INNES FROBISHER BEDS	5	4	1.7	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
WEST KINGSFORD MIDALE BEDS	25	20	1.5	WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
WESTHAZEL G.P. SAND	6	3	2.6	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
WESTHAZEL SPARKY SAND	20	13	2.0	SOLUTION GAS DRIVE	NONE	1	SE 1/4 OF LSD.
WEYBURN FROBISHER BEDS	8	8	2.2	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS. EXCEPT: TWP 6, RGE 11, SEC: W1/2-31. TWP 7, RGE 11, SEC: 6,7. TWP 5, RGE 12, SEC: NW1/4-35. TWP 6, RGE 12, SEC: LSDS.13&14-1, NE1/4&W1/2&LSDS.7&8-2,11,W1/2-12, 13,14,NE1/4-22,23,24,25,26,27.33, 34,35,36. TWP 7, RGE 12, SEC: 1,2,LSDS.9,10, 11&12&S1/2-3,LSDS.9&10&SE1/4-4, LSDS.3&4&E1/2-11,12. WHERE: 2 ODD NUMBERED LSDS.
WEYBURN MIDALE BEDS	570	520	1.5	SOLUTION GAS DRIVE	WATERFLOOD IN: WEYBURN UNIT	2	EVEN NUMBERED LSDS. EXCEPT: TWP 6, RGE 11, SEC: W1/2-31. TWP 7, RGE 11, SEC: 6,7. TWP 5, RGE 12, SEC: LSDS.11&12-35. TWP 6, RGE 12, SEC: LSDS.13&14-12, 13,LSDS.9,10,13&14-14,NE1/4-22,23, 24,25,LSDS.3&4&E1/2-26,LSDS.5,6,7&8 &N1/2-33,NE1/4-34,E1/2&NW1/4-35,36. TWP 7, RGE 12, SEC: 1,2,LSDS.9,10, 11&12&S1/2-3,LSDS.9&10&SE1/4-4, LSDS.3&4&E1/2-11,12. WHERE: 2 ODD NUMBERED LSDS.
WHITE BEAR TILSTON BEDS	11	9	3.9	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
WHITE BEAR TILSTON-SOURIS VALLEY	4	2	0.6	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
WHITEMUD UPPER SHAUNAVON	5	5	0.8	SOLUTION GAS DRIVE	NONE	4	NE LSD. IN 1/4 SECTION
WHITESIDE VIKING SAND	7	5	0.6	SOLUTION GAS DRIVE	WATERFLOOD IN: WHITESIDE UNIT	2	ODD NUMBERED LSDS.
WILDWOOD ALIDA BEDS	5	5	1.2	WATER DRIVE	NONE	2	EVEN NUMBERED LSDS.
WILLMAR FROBISHER-ALIDA BEDS	119	90	1.8	WATER DRIVE SOLUTION GAS DRIVE PARTIAL WATER DRIVE	WATERFLOOD IN: (1)WILLMAR FROBISHER-ALIDA VOLUNTARY UNIT NO. 1 (2)NORTH DALESBORO UNIT NO.1 (3)NORTH CENTRAL WILLMAR VOLUNTARY UNIT PILOT MISCIBLE FLOOD	2	EVEN NUMBERED LSDS.
WINMORE FROBISHER BEDS	5	3	0.3	SOLUTION GAS DRIVE PARTIAL WATER DRIVE	NONE	2	ODD NUMBERED LSDS.
WORKMAN FROBISHER BEDS	71	63	1.7	SOLUTION GAS DRIVE WATER DRIVE	WATERFLOOD IN: WORKMAN FROBISHER VOLUNTARY UNIT NO. 1	2	ODD NUMBERED LSDS.
WORKMAN MIDALE BEDS	26	17	0.8	SOLUTION GAS DRIVE	WATERFLOOD IN: (1)WORKMAN MIDALE VOLUNTARY UNIT NO. 1 (2)WORKMAN MIDALE VOLUNTARY UNIT NO. 2	2	ODD NUMBERED LSDS.

GAS POOLS

POOL NAME	WELLS CAPABLE OF PROD.	NO. OF WELLS PRODUCING	AVE. PROD. 10^3m^3/DAY/WELL (PEAK PROD.)	SPACING REGULATIONS
BAYHURST VIKING GAS POOL	3	2	5.7	1 section drainage units
BAYHURST WEST VIKING GAS POOL	3	1	39.9	1 section drainage units
BEACON HILL MANNVILLE SAND GAS POOL	20	12	32.5	1 section drainage units
BEVERLEY EAST CANTUAR GAS POOL	3	2	18.6	1 section drainage units
BROCK EAST VIKING GAS POOL	3	3	2.8	1 section drainage units
BROCK VIKING SAND GAS POOL	6	2	7.6	1 section drainage units
COLEVILLE-SMILEY VIKING SAND GAS POOL	40	39	8.8	1 section drainage units
DODSLAND NORTH VIKING GAS POOL	20	20	5.9	1 section drainage units
GLIDDEN VIKING GAS POOL	3	0	--	1 section drainage units
GREENAN VIKING GAS POOL	18	12	3.8	1 section drainage units
GULL LAKE CANTUAR GAS POOL	6	3	2.2	1 section drainage units
HATTON MEDICINE HAT SAND GAS POOL	321	316	3.0	1 section drainage units, except: twp 14, rge 27, sec. 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 28, 29, 30, 31, 32 & 33; twp 14, rge 28, sec.24; where drainage units are 1/2 section.*
HATTON MILK RIVER GAS POOL	192	184	6.0	1 section drainage units, except: (a) twp 14, rge 27, sec. 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 26, 27, 28, 29, 30, 31, 32 & 33; twp 14, rge 28, sec. 24; where drainage units are 1/2 section. (b) twp 15, rge 28, sec. 31; twp 15, rge 29, sec. 35 & 36; twp 16, rge 29, sec. 6, 7, 17, 18, 19, 20 & 27; where drainage units are 1/4 section.*
HATTON MILK RIVER - MEDICINE HAT GAS POOL	34	34	6.1	In accordance with the spacing regulations for the Hatton Milk River and Hatton Medicine Hat Gas Pools.
HOOSIER VIKING SAND GAS POOL	17	17	7.9	1 section drainage units
LIEBENTHAL MILK RIVER GAS POOL	54	52	0.8	1/2 section drainage units
LLOYDMINSTER COLONY SAND POOL	9	7	2.6	1/4 section drainage units
[illegible]LAND VIKING GAS POOL	5	0	--	1 section drainage units
MILTON VIKING SAND GAS POOL	5	4	12.9	1 section drainage units
PIERCELAND MANNVILLE SAND GAS POOL	5	5	61.4	1 section drainage units
TOTNES VIKING GAS POOL	2	2	25.1	1 section drainage units
WHITESIDE VICTORIA SAND GAS POOL	3	3	16.7	1 section drainage units

(* Special provisions for fractional sections.)

AREA SPACING DESCRIPTION*

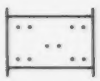
SPACING AREA	DRAINAGE UNIT SIZE (No. of Lsds)	TARGET AREA	EXCEPTIONS
		- OIL AREAS -	
A	2	Odd numbered Lsds.	A well greater than 1 1/2 miles from a producer in the same zone may be drilled on the even or odd Lsd.
B	2	Even numbered Lsds.	A well greater than 1 1/2 miles from a producer in the same zone may be drilled on the even or odd Lsd.
C	4	Any quadrant of a quarter section	Wells drilled within a 3 mile square block centred on the section of a producer must take the spacing of this well.
D	2	Odd or even Lsds.	Wells drilled within a 3 mile square block centred on the section of a producer must take the spacing of this well.
E	1	Southeast quadrant of any Lsd.	Wells drilled within a 3 mile square block centred on the section of a producer completed in an established pool shall take on the spacing of this pool. Only applies to wells drilled within the Cretaceous system
F	2	Even numbered Lsds.	A well greater than 1 1/2 miles from a producer in the same zone may be drilled on the odd or even Lsd. Does not apply to the Blairmore or Bakken formations
		- GAS AREAS -	
G	16	Odd or even Lsds.	Wells with 1 mile of a well producing or capable of producing shall be drilled on one of the centre Lsds. Only applies to Blairmore formation
H	4	Southeast quadrant of a quarter section	Only applies to the Milk River formation

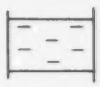
* See Oil and Gas Conservation Act & Regulations Thereunder for complete area spacing regulations

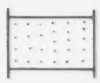
TYPICAL WELL LOGS

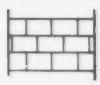
OF PRODUCING ZONES

LITHOLOGY LEGEND

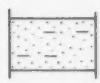
Silt 

Shale 

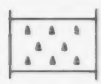
Sandstone 

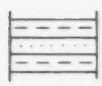
Limestone 

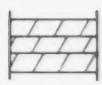
Calcareous shale

Argillaceous sandstone 

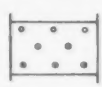
Coal

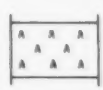
Chert pebbles 

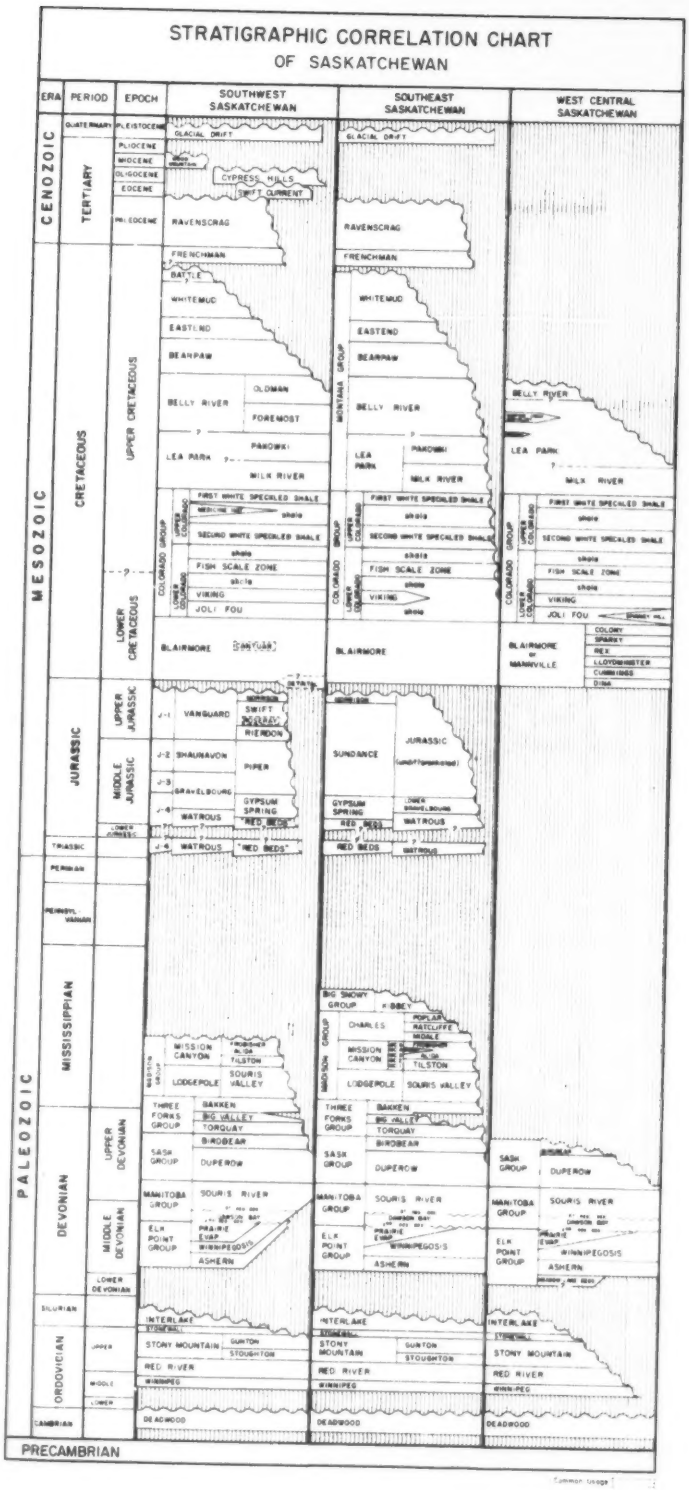
Interbedded shale and sandstone 

Dolomite or dolomitic limestone 

Argillaceous and anhydritic dolomite

Oolitic 

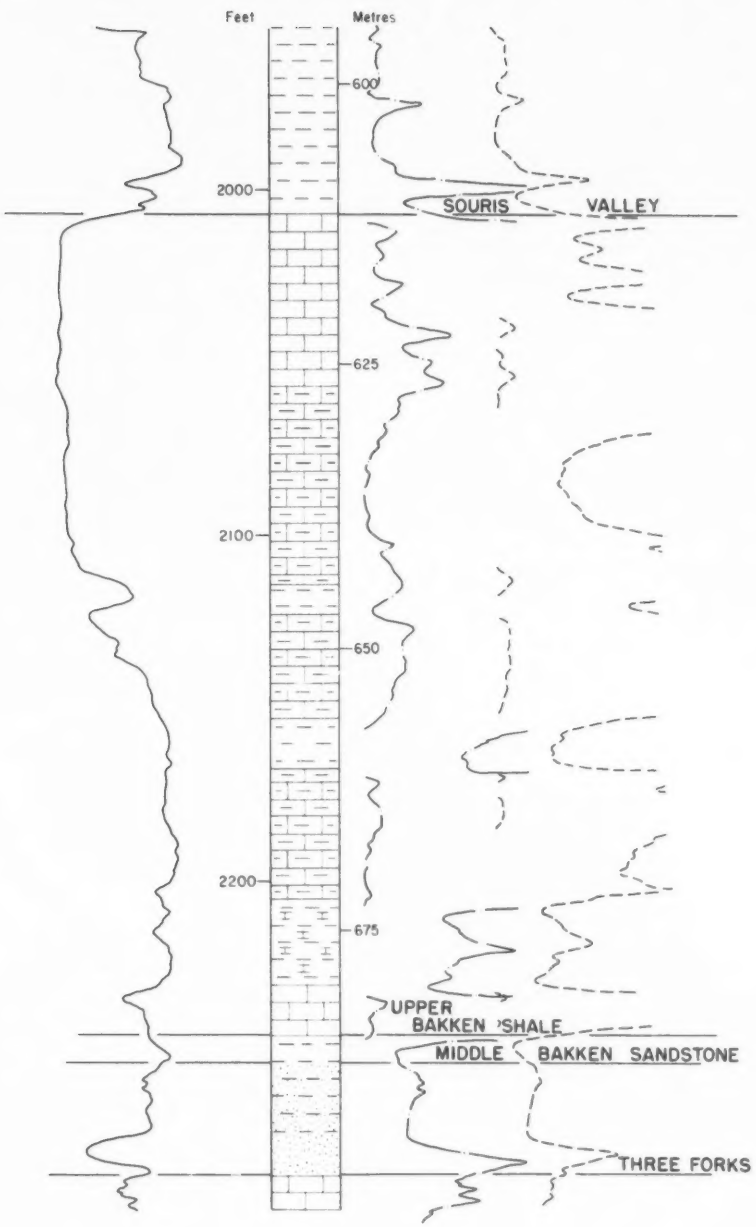
Anhydrite 


STRATIGRAPHIC CORRELATION CHART
OF SASKATCHEWAN
ERA
PERIOD
EPOCH
SOUTHWEST SASKATCHEWAN
SOUTHEAST SASKATCHEWAN
WEST CENTRAL SASKATCHEWAN
CENOZOIC
MESOZOIC
PALEOZOIC
PRECAMBRIAN
QUATERNARY
TERTIARY
CRETACEOUS
JURASSIC
TRIASSIC
PERMIAN
MISSISSIPPIAN
DEVONIAN
SILURIAN
ORDOVICIAN
CAMBRIAN
PLEISTOCENE
PLIOCENE
MIOCENE
OLIGOCENE
EOCENE
PALEOCENE
UPPER CRETACEOUS
LOWER CRETACEOUS
UPPER JURASSIC
MIDDLE JURASSIC
LOWER JURASSIC
GLACIAL DRIFT
CYPRESS HILLS
SWIFT CURRENT
RAVENSCRAG
FRENCHMAN
BATTLE
WHITEMUD
EASTEND
BEARPAW
BELLY RIVER
OLDMAN
FOREMOST
LEA PARK
PAKOWKI
MILK RIVER
COLORADO GROUP
UPPER COLORADO
LOWER COLORADO
FIRST WHITE SPECKLED SHALE
SECOND WHITE SPECKLED SHALE
FISH SCALE ZONE
VIKING
JOLI FOU
BLAIRMORE
COLONY
SPARKY
REX
LLOYDMINSTER
CUMMINGS
DINA
MANNVILLE
VANGUARD
SWIFT
QUARTZ
RIVERTON
SHAUNAVON
PIPER
GRAVELBOURG
GYPSUM SPRING
WATROUS
"RED BEDS"
SUNDANCE
JURASSIC
MISSION CANYON
TILSTON
LODGEPOLE
SOURIS VALLEY
BIG SNOWY GROUP
KIBBEY
CHARLES
POPLAR
RATCLIFFE
MIDDLE
BOTTOM
MADISON GROUP
THREE FORKS GROUP
BAKKEN
BIG VALLEY
TORQUAY
BIRDBEAR
SASK GROUP
DUPEROW
MANITOBA GROUP
SOURIS RIVER
ELK POINT GROUP
PRAIRIE EVAP
WINNIPEGOSIS
ASHERN
INTERLAKE
STONEWALL
STONY MOUNTAIN
GUNTON
STOUGHTON
RED RIVER
WINNIPEG
DEADWOOD

HUDSON ROCANVILLE 4-4

4-4-16-31-W1

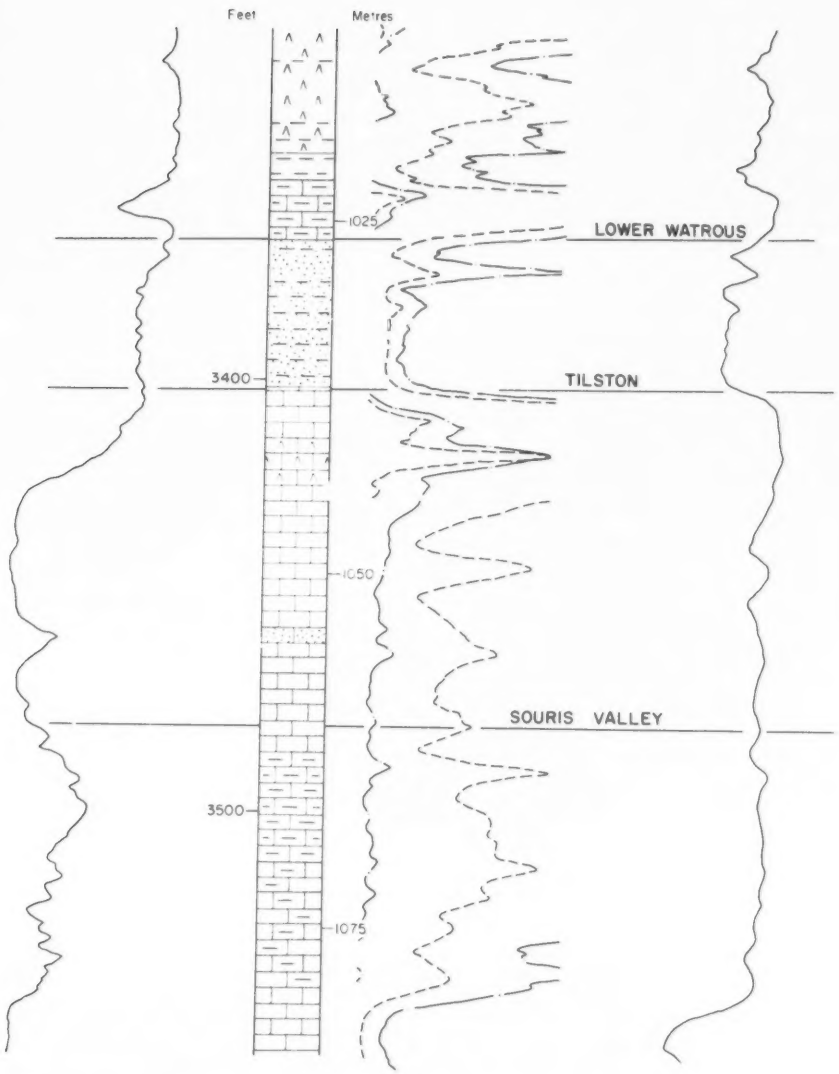
PRODUCING HORIZON : BAKKEN SAND



ROYALITE PARKMAN 2-3

2-3-9-33-W1

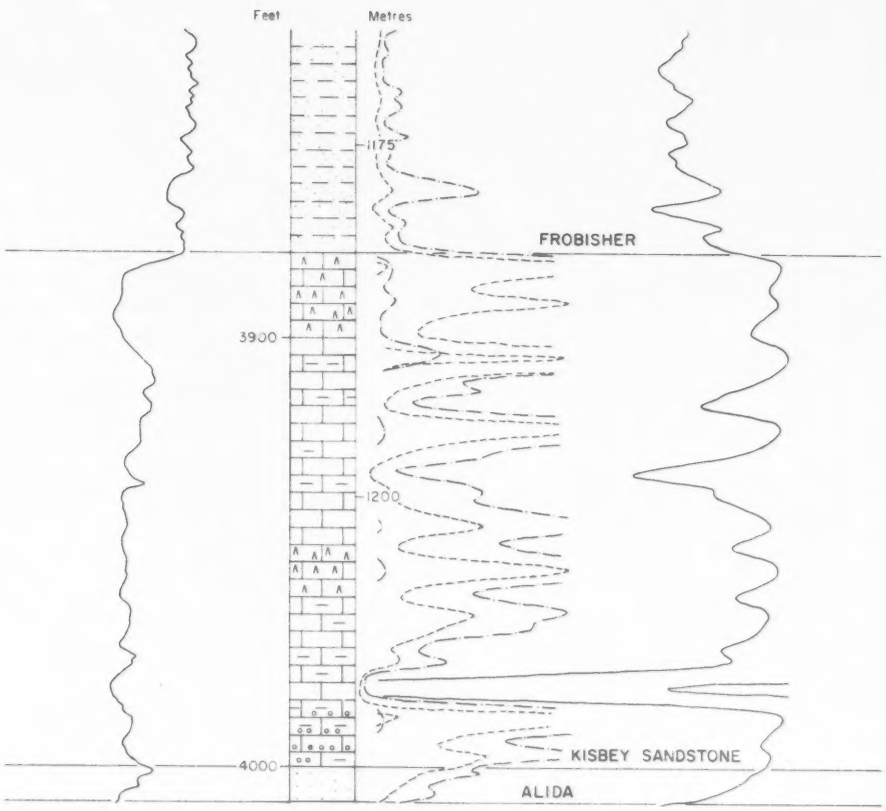
PRODUCING HORIZONS : TILSTON AND SOURIS VALLEY BEDS



MURPHY HASTINGS 7-24-4-34

7-24-4-34-W1

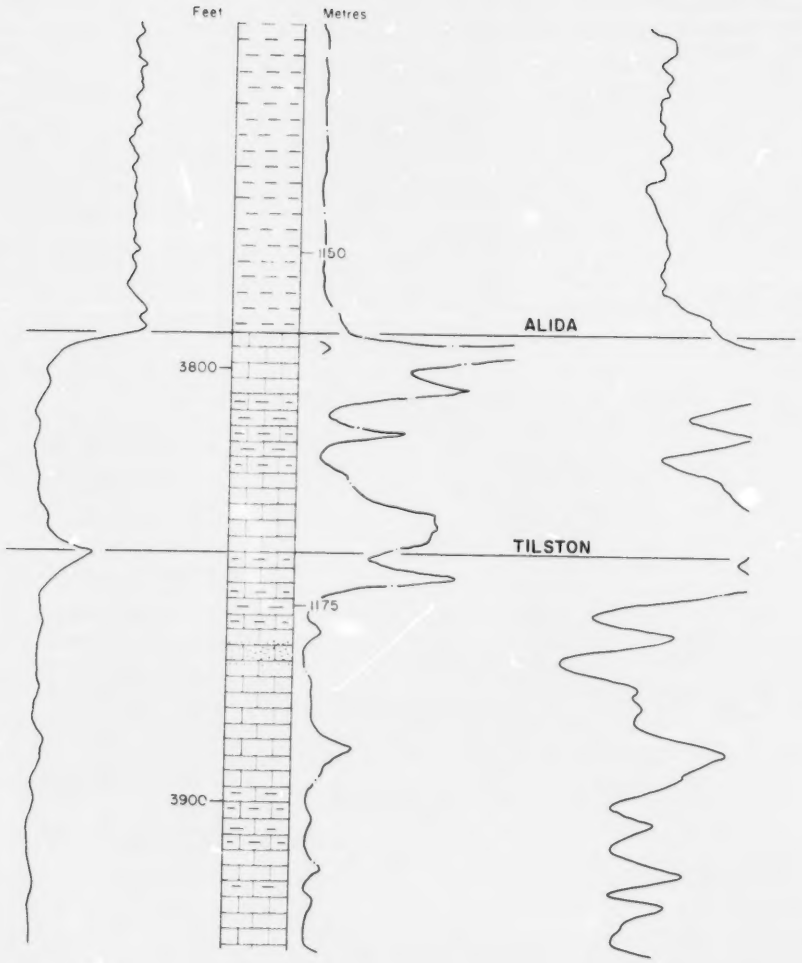
PRODUCING HORIZON : FROBISHER BEDS



SUN QUEENSDALE 2-13-6-1

2-13-6-1-W2

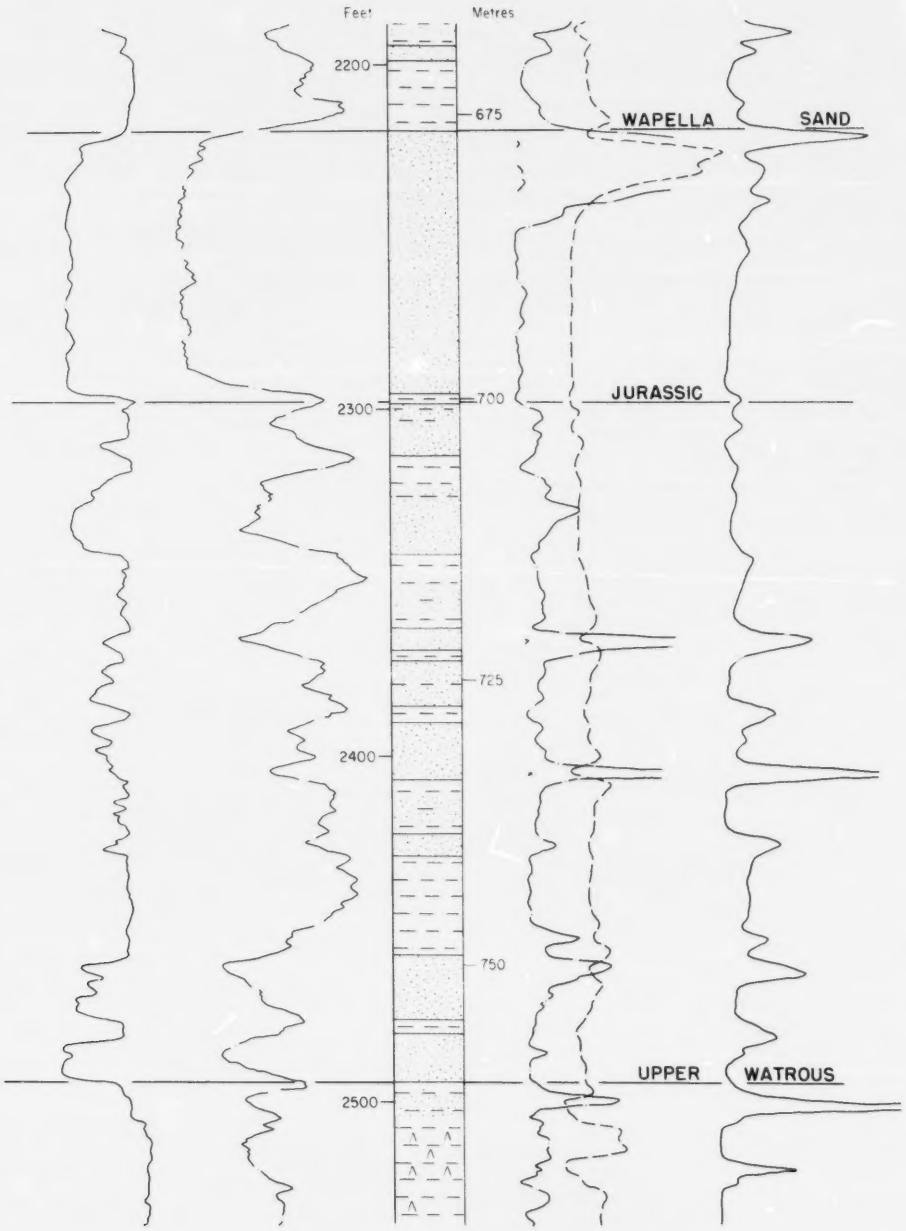
PRODUCING HORIZON : ALIDA BEDS



TIDEWATER WAPELLA 6-33

6-33-14-1-W2

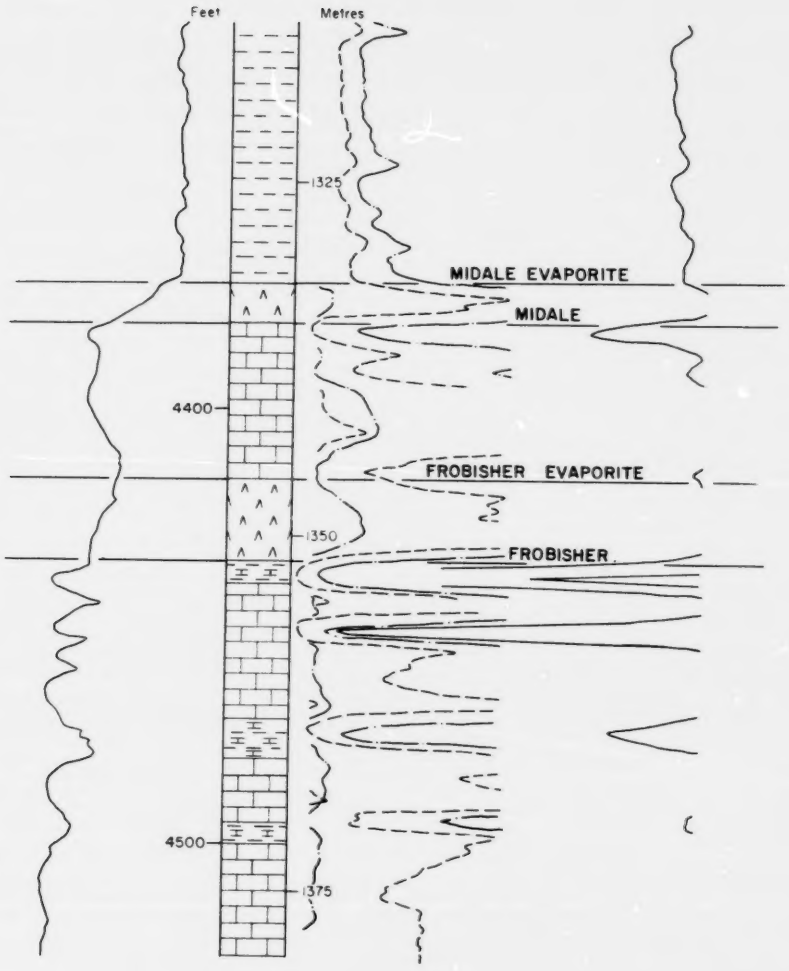
PRODUCING HORIZONS : WAPELLA AND JURRASSIC SANDS



PHOENIX et al STEELMAN 5-24-5-6

5-24-5-6-W2

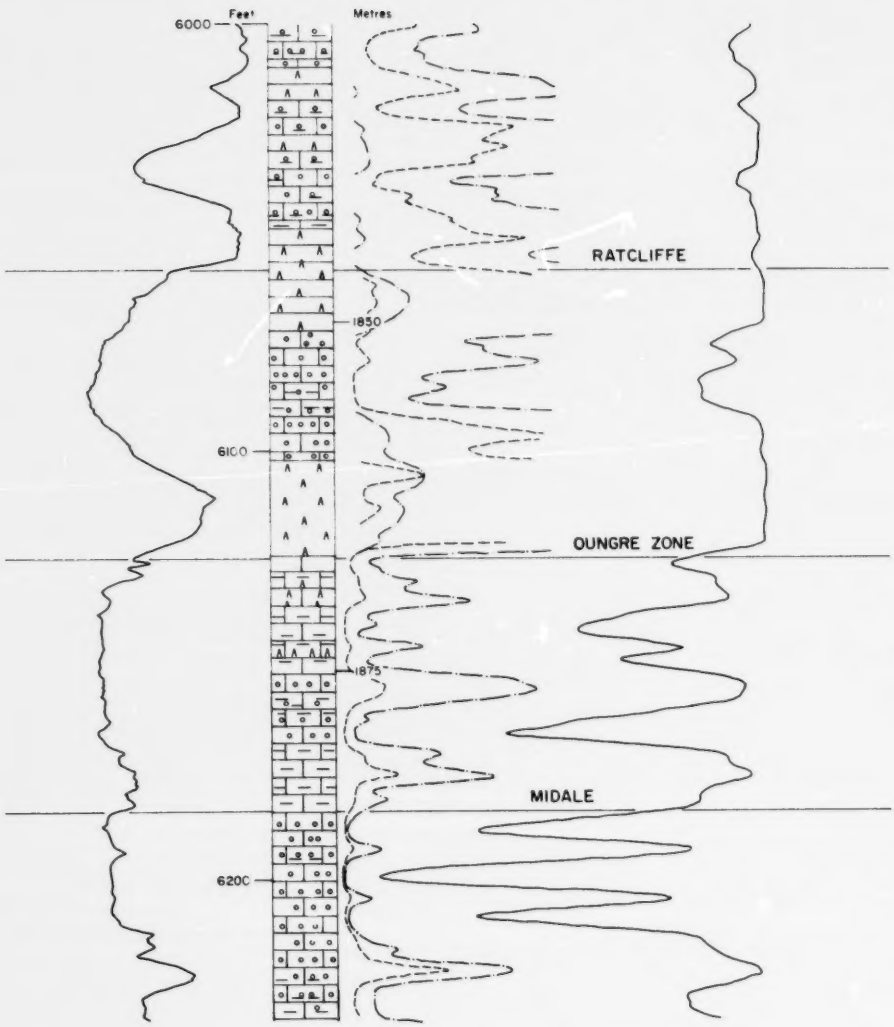
PRODUCING HORIZONS : MIDALE AND FROBISHER BEDS



CNEL CDR OUNGRE 9-24-2-15

9-24-2-15-W2

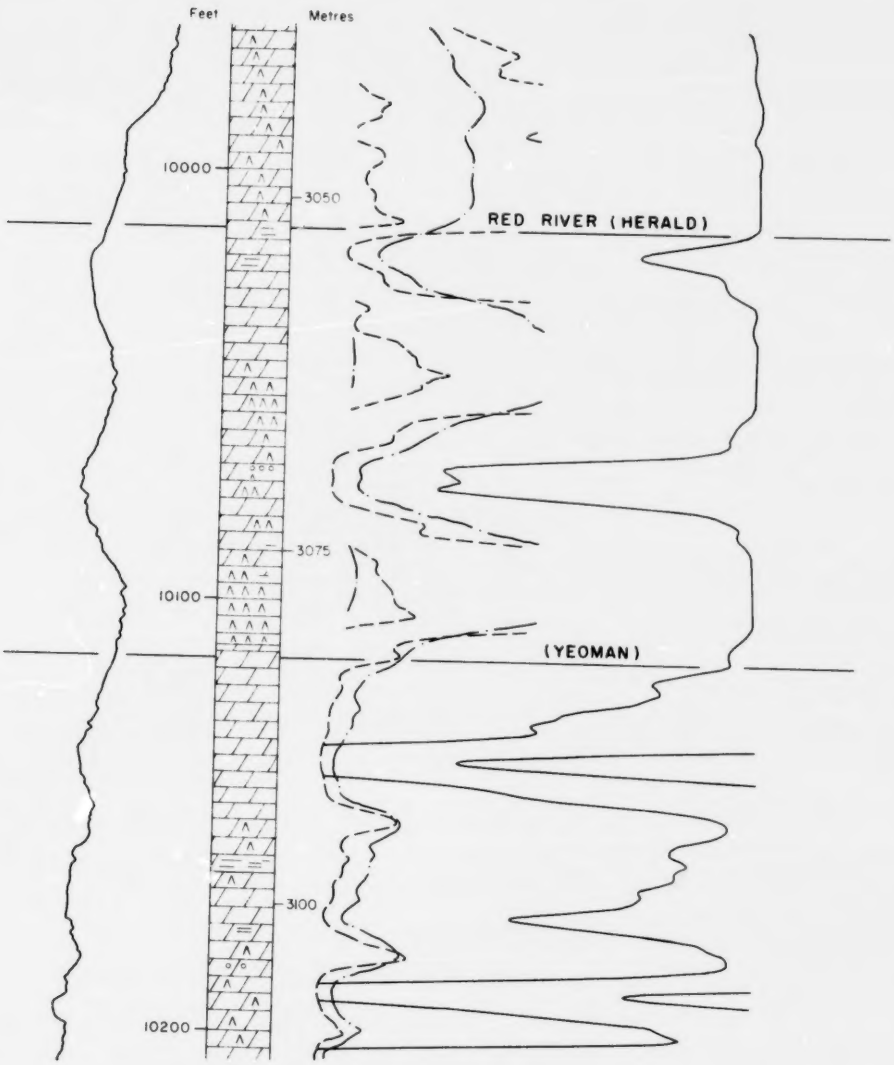
PRODUCING HORIZON : RATCLIFFE BEDS



C.D.R. SCURRY S. LAKE ALMA 1-14-1-17

1-14-1-17-W2

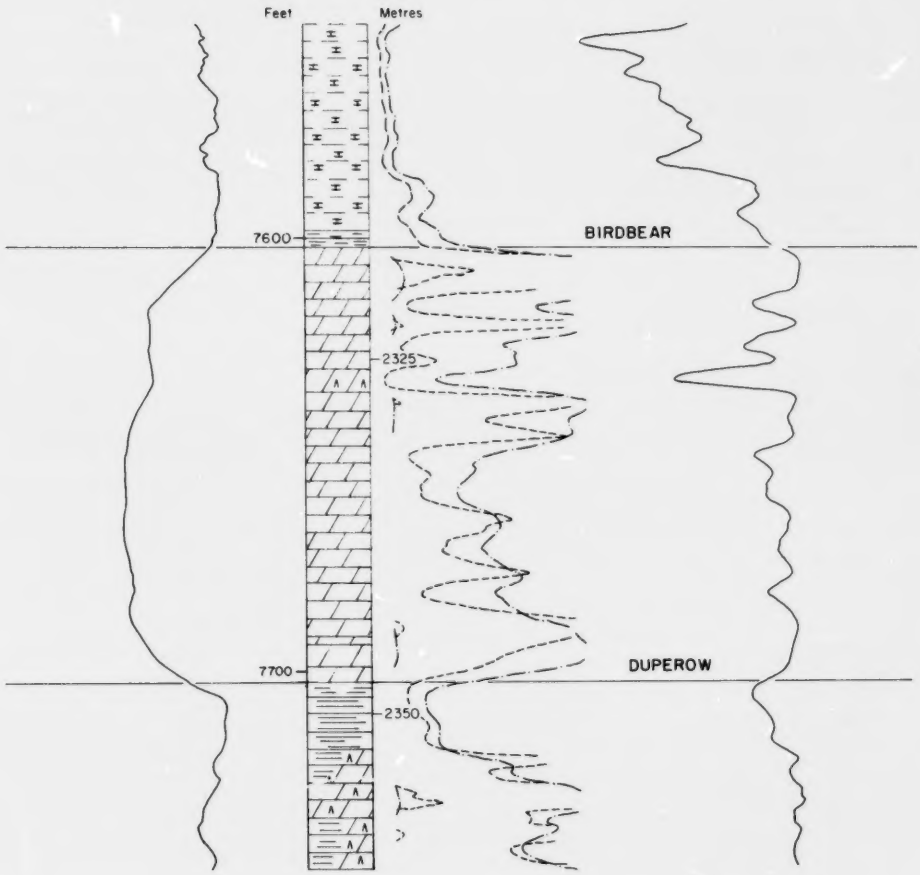
PRODUCING HORIZON : RED RIVER FORMATION



HB MIAMI HUMMINGBIRD 11-26-2-19

11-26-2-19-W2

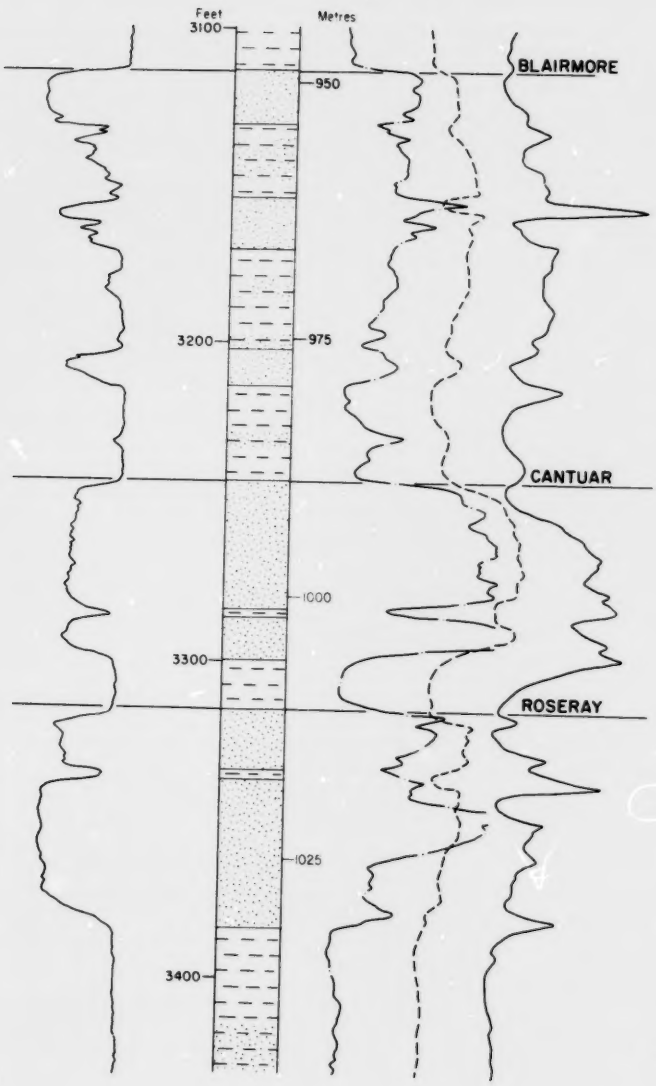
PRODUCING HORIZON : BIRDBEAR FORMATION



M.U.S. CANTUAR 5-2-16-17

5-2-16-17-W3

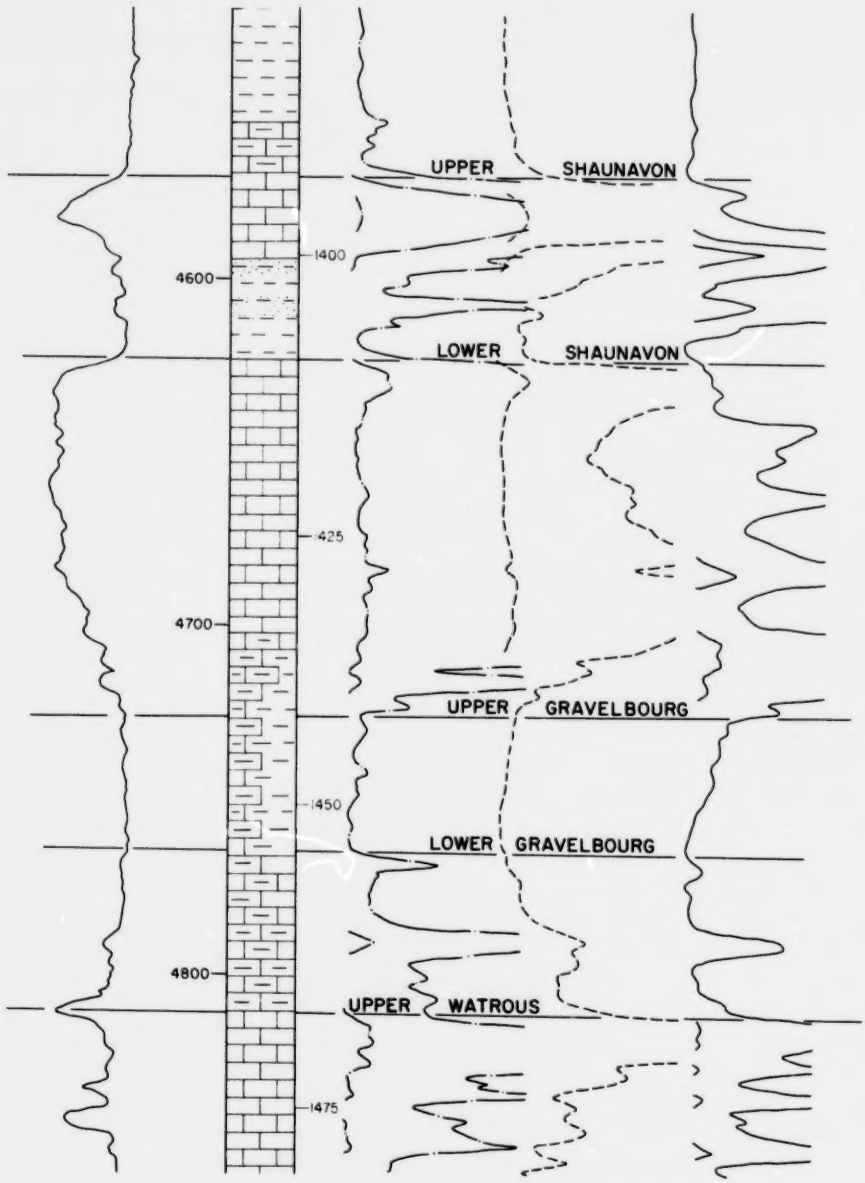
PRODUCING HORIZONS : CANTUAR AND ROSERAY SANDS



TIDEWATER INSTOW CROWN 11-33

11-33-9-18-W3

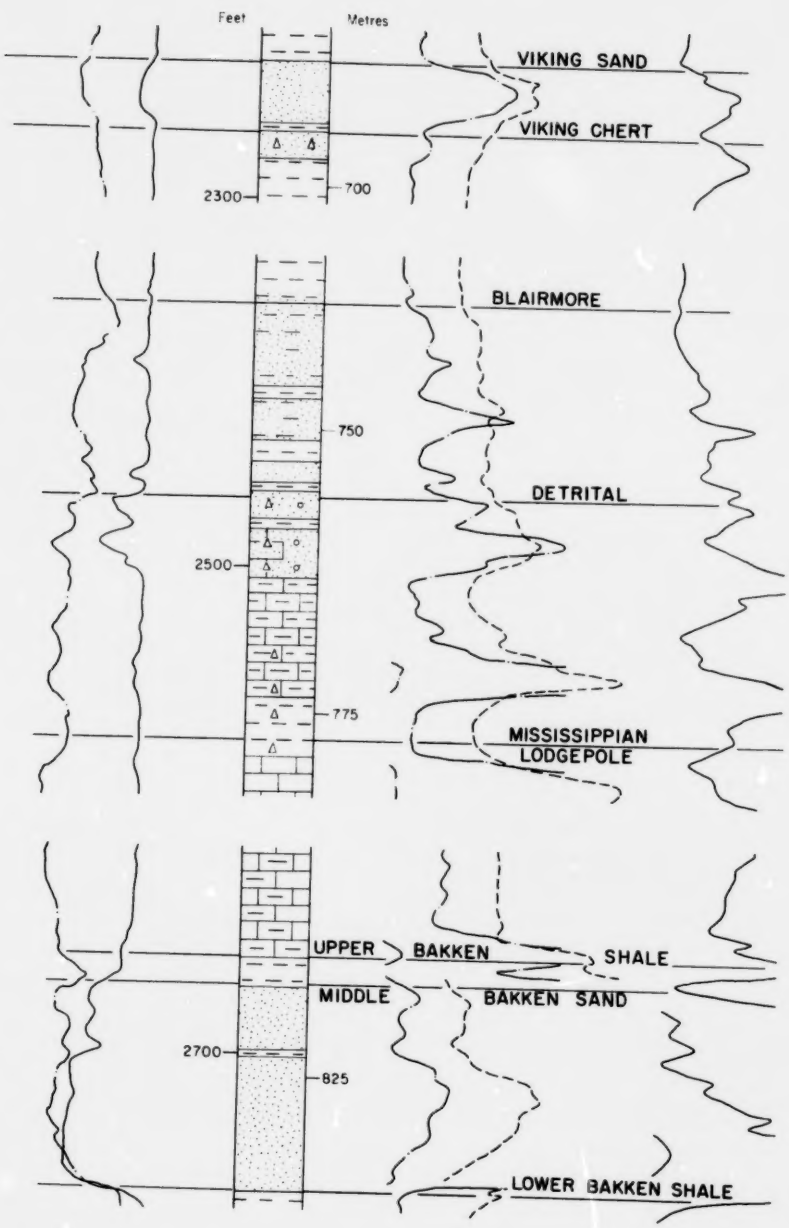
PRODUCING HORIZONS : UPPER AND LOWER SHAUNAVON FORMATIONS



COLEVILLE UNIT 5-30

5-30-31-23-W3

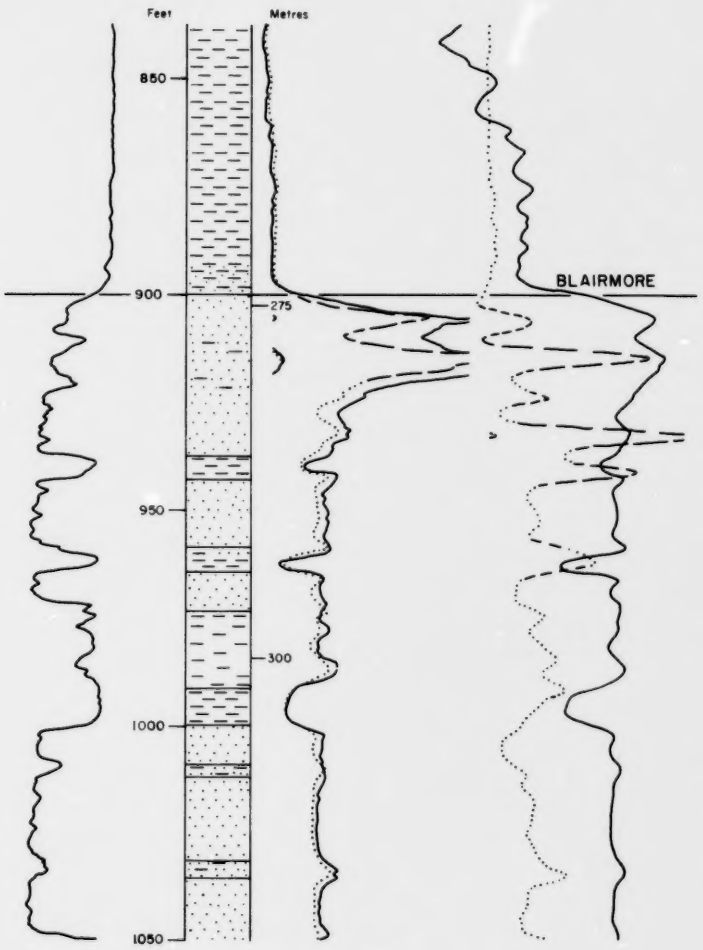
PRODUCING HORIZONS : VIKING AND MIDDLE BAKKEN SANDS



SPC BEACON HILL 10-17-61-24

10-17-61-24-W3

PRODUCING HORIZON : BLAIRMORE



CAN OXY et al SANDHILLS 11-21-17-25

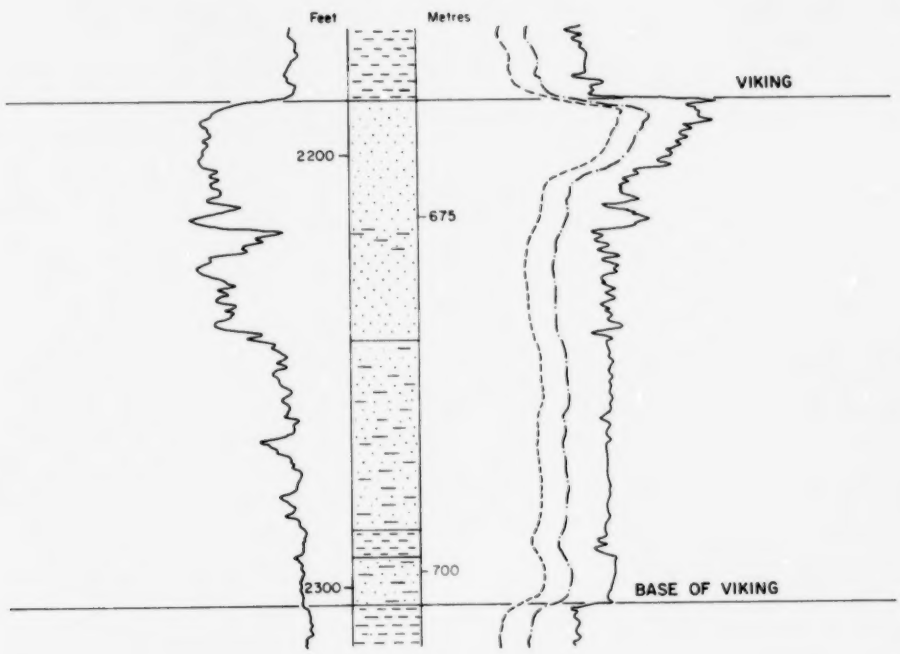
11-21-17-25-W3

PRODUCING HORIZON : MILK RIVER SAND

IMP. BAYHURST 11-19V-24-25

11-19-24-25-W3

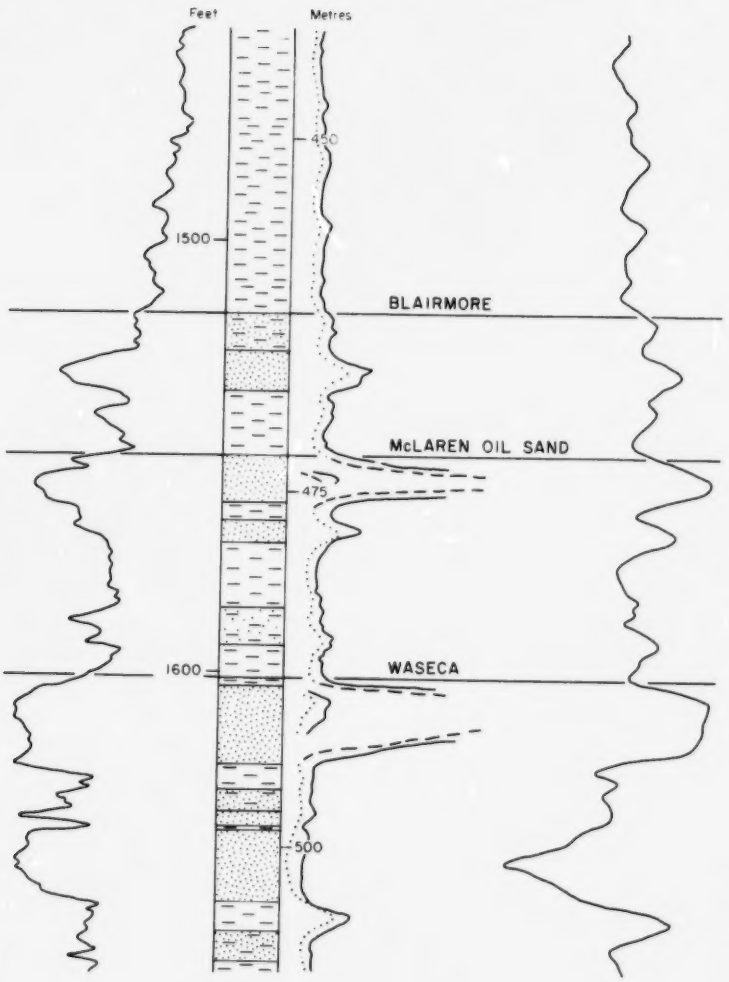
PRODUCING HORIZON : VIKING SAND



HUSKY BIG GULLY C6-27-49-25

C6-27-49-25-W3

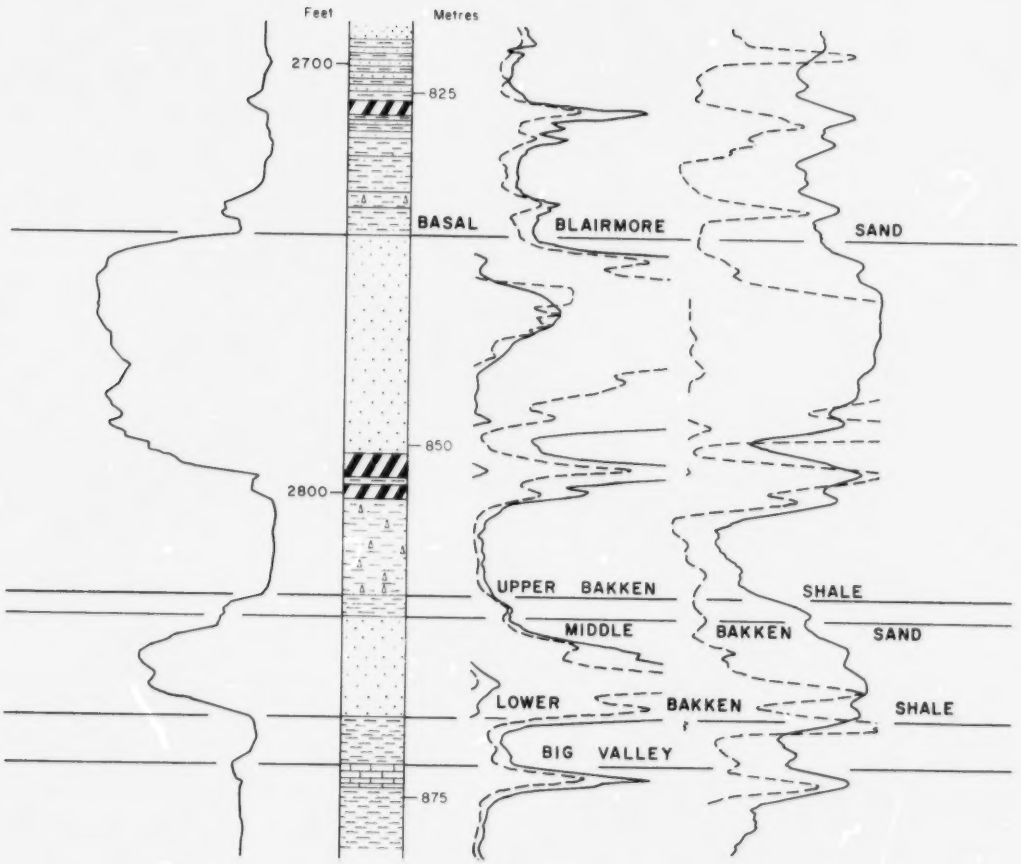
PRODUCING HORIZONS : McLAREN AND WASECA SANDS



HUSKY N. HOOSIER 6-14-32-27

6-14-32-27-W3

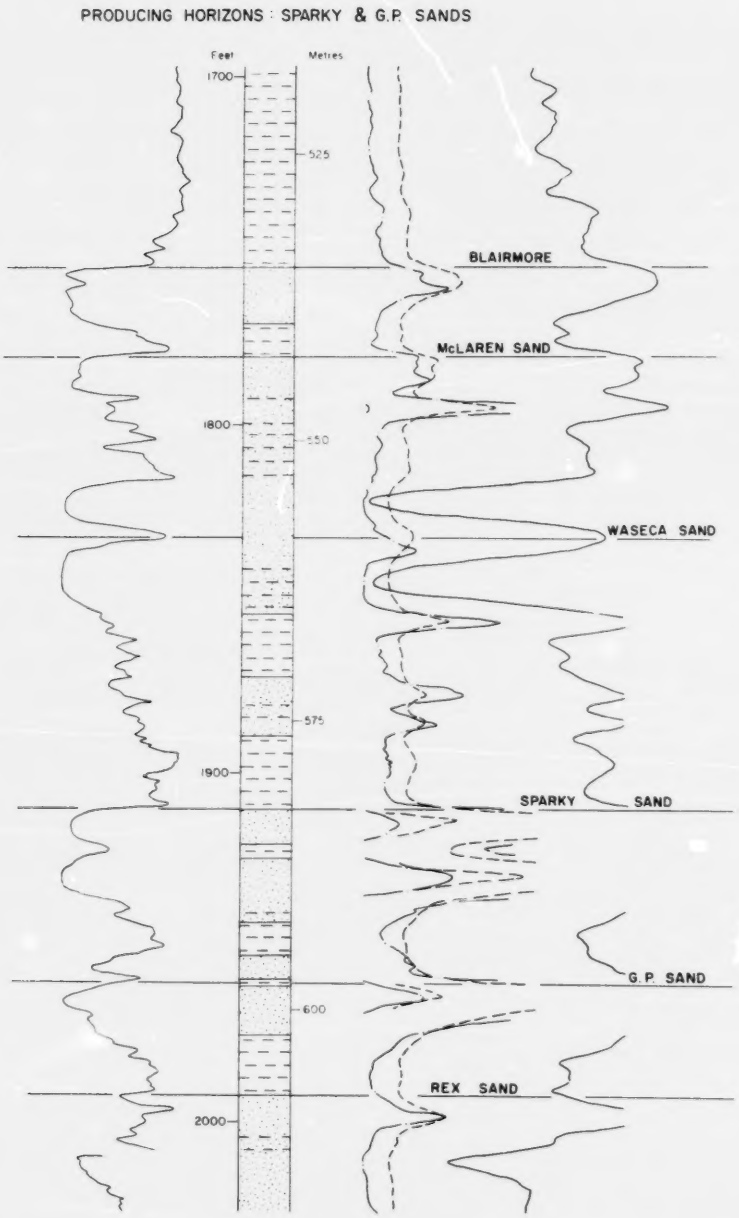
PRODUCING HORIZON : BASAL BLAIRMORE



CDN RES EPPING A14-30-47-27

14-30-47-27-W3

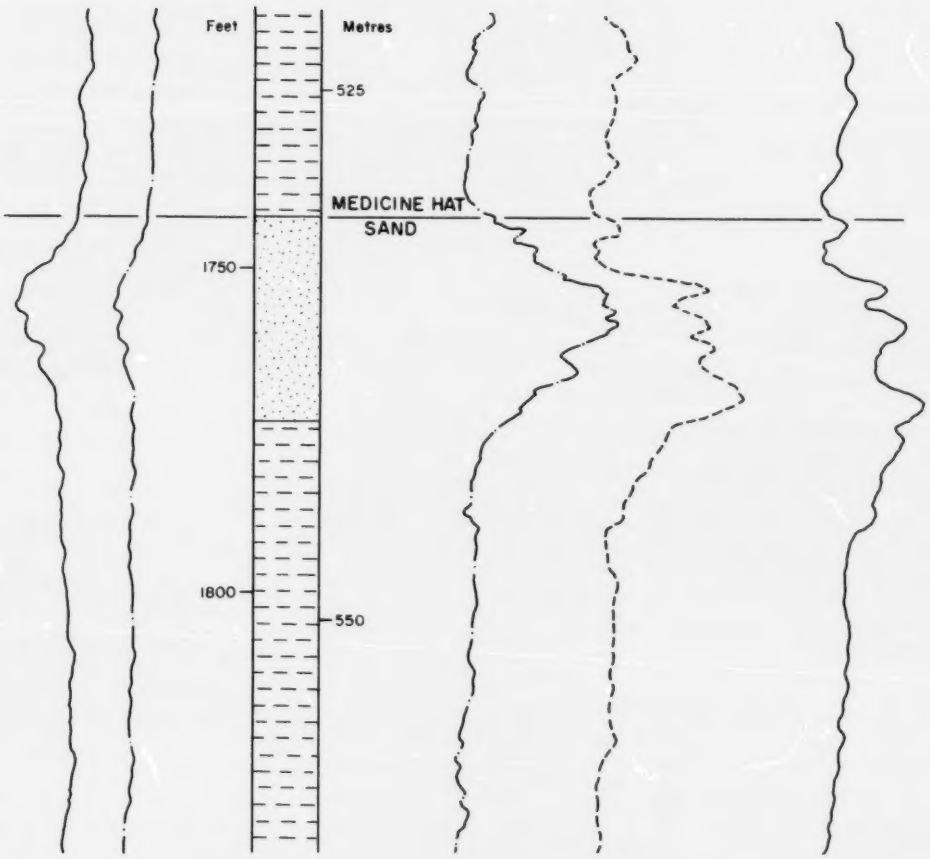
PRODUCING HORIZONS : SPARKY & G.P. SANDS



N.C.O. HORSHAM 10-7-16-29

10-7-16-29-W3

PRODUCING HORIZON : MEDICINE HAT SAND



POOL PRESSURE DATA

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m
Aberfeldy Sparky Sand	+80.8	
Alameda Midale Beds:		
(Central Group)	792.5	7.24
(East Group)	746.8	7.24
Alida East Alida Beds	536.4	7.67
Alida West Alida Beds	545.6	7.67
Alsask Basal Blairmore Sand	91.4	9.27
Antelope Lake Upper Shaunavon	300.2	8.82
Arcola Frobisher-Alida Beds	570.0	8.37
Avon Hill Viking	13.7	8.37
Baldwinton Sparky Sand	+43.7	
Battrum Roseray Sand	179.8	8.82
Bench Upper Shaunavon	438.9	8.82
Benson Midale Beds	754.4	7.92
Beverley Cantuar Sand	243.8	9.05
Beverley Upper Roseray Sand	246.9	8.78
Big Gully McLaren Sand	+141.7	
Big Gully Waseca Sand	+125.0	
Bone Creek Upper Shaunavon	464.8	8.60
Bromhead Midale Beds	1098.8	8.60
Browning Frobisher-Alida Beds	682.8	7.24
Bryant Frobisher Beds	836.2	
Bryant Midale Beds	807.4	
Buffalo Coulee Bakken Sand	108.2	9.66
Butte Upper Shaunavon	417.6	8.82
Buzzard Lloydminster Sand	+38.4	
Cactus Lake Bakken Sand	97.1	
Cantal Frobisher-Alida Beds	579.1	6.79
Cantuar Lower Roseray Sand	228.6	8.78
Cantuar East Cantuar Sand	228.6	8.60
Cantuar East Roseray Sand	228.6	8.78
Cantuar Main Cantuar Sand	227.1	8.78
Carnduff Midale Beds	723.9	7.24
Carnduff Frobisher Beds	752.9	7.24
Celtic Sparky Sand	+118.9	
Celtic Waseca Sand	+140.2	
Clarilaw Frobisher-Alida Beds	623.3	7.24

TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
57	15.39	10.64 MPa @ 57°C
57	15.27	10.80 MPa @ 57°C
44	10.47	10.47 MPa @ 43°C
45	10.54	10.54 MPa @ 45°C
33		
49	10.00	
53	11.00	8.77 MPa @ 53°C
23	6.72	
46	8.56	1.39 MPa @ 43°C
	12.45	
68	14.38	
48	9.11	9.11 MPa @ 48°C
48	12.27	4.78 MPa @ 49°C
	17.65	
59	12.55	
		2.21 MPa @ 26°C
49	12.37	1.23 MPa @ 49°C
47	10.87	10.85 MPa
51	9.10	9.10 MPa @ 52°C
51		
51		
51	8.95	8.95 MPa @ 52°C
58	15.17	
59	12.98	
58	11.78	

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m	TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
Coleville Bakken Sand	109.7	9.50			
Covington Upper Shaunavon	416.1	8.82	52	11.94	3.52 MPa @ 51°C
Covington West Upper Shaunavon	417.6	8.82			
Crystal Hill Souris Valley Beds	434.3	8.37		9.19	
Dalesboro Frobisher-Alida Beds	670.6	8.37	56	12.00	
Dee Valley East Sparky Sand	+79.2				
Dee Valley East Waseca Sand	+102.1				
Dee Valley Waseca Sand	103.6				
Delta Upper Shaunavon	306.3	8.82	46	10.57	7.46 MPa @ 47°C
Dodsland Viking Sand	+4.6	7.99	23	6.41	6.41 MPa
Dollard Upper Shaunavon	434.3	8.60	59	11.80	6.32 MPa @ 60°C
Dulwich North Sparky Sand	+86.9				
Dulwich Sparky Sand	+79.2				
Eastbrook Upper Shaunavon	461.8	9.05	54	15.70	
Edam Waseca Sand	+119.2				
Edenvale Tilston Beds	533.4	7.69	43		
Elmore Midale Beds	685.8	7.92	52	14.33	
Elmore Frobisher Beds	701.0	7.92	52	12.05	6.83 MPa @ 51°C
Epping G.P. Sand	+57.9				
Epping Sparky Sand	+67.1				
Eureka Viking	18.3	7.99	23	6.12	4.43 MPa @ 26°C
Eyehill Cummings Sand	89.9				
Flat Lake Ratcliffe Beds	1271.0	8.37	73	20.15	9.80 MPa @ 81°C
Florence Frobisher Beds	789.4	8.37	57	13.28	
Forest Bank Mannville Sands	+115.8				
Forest Bank Sparky Sand	+99.1				
Forest Bank Waseca Sand	+120.4				
Fosterton Roseray Sand:					
Middle (II) Roseray Sand	221.0	8.82	52	9.10	
Lower (I) Roseray Sand	221.0	8.82	52	9.10	
Northwest Group	218.5	8.82	52		
Freda Lake Ratcliffe Beds	960.1	8.37		18.56	
Freemont Sparky Sand	+43.8				
Freemont Waseca Sand	+62.5				
Freestone Frobisher-Alida Beds	570.0	7.92	54	11.29	
Frys Tilston-Souris Valley Beds	402.3	8.37			
Furness Sparky Sand	+73.2				
Fusilier Bakken Sand Pool	121.9	9.27			

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m	TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
Gainsborough Frobisher-Alida Beds	579.1	7.24	44		
Glen Ewen Midale Beds	728.5	7.24	56	15.17	
Glen Ewen Frobisher Beds	751.3	7.24	56		
Golden Lake North Sparky Sand	+96.0				
Golden Lake North Waseca Sand	+121.9				
Golden Lake South Sparky Sand	+96.0				
Golden Lake South Waseca Sand	+115.8				
Griffin Frobisher Beds Pool	690.4	8.60	62		
Gull Lake Basal Cantuar Sand	300.2	8.82	47		8.79 MPa @ 47°C
Gull Lake Central Upper Shaunavon	387.1	8.82	51		
Gull Lake North Upper Shaunavon	365.8	8.82	48	11.11	1.10 MPa @ 46°C
Gull Lake South Upper Shaunavon	402.3	8.82	52	11.71	
Gully Lake Waseca Sand	+103.6				
Handsworth Alida Beds	536.4	8.60	51	10.99	
Hartaven Frobisher-Alida Beds	577.6	8.60	56	11.58	
Hastings Frobisher Beds	643.1	6.79	49	11.65	11.65 MPa
Hazelwood Tilston Beds	425.2	8.37	43	9.53	
Hazlet Roseray Sand	205.7	9.05	47	9.13	5.60 MPa @ 47°C
Hoffer Ratcliffe Lower Beds	1248.2	8.60		19.47	
Hoffer Ratcliffe Upper Beds	1231.4	8.60		19.33	
Hoosier Bakken Sand Pool	150.9	9.50			
Hume Frobisher Beds	739.1	8.60	64	13.21	
Hume Midale Beds	723.9	8.60		14.23	
Hummingbird Birdbear	1585.0	8.14	82	23.16	8.09 MPa @ 82°C
Hummingbird Ratcliffe Beds	1155.2	8.60	71	18.70	6.03 MPa @ 71°C
Huntoon Frobisher Beds	754.4	8.60	61		
Huntoon Midale Beds	737.6	8.60	55		
Illerbrun Upper Shaunavon	414.5	8.82	49	11.86	3.15 MPa @ 49°C
Ingoldsby Alida Beds	548.6	7.89	46	10.51	4.81 MPa @ 45°C
Innes Frobisher Beds	719.3	8.60	63	12.98	7.78 MPa @ 61°C
Instow Upper Shaunavon	464.8	8.60	48	12.27	4.78 MPa @ 49°C
Johnston Upper Shaunavon	371.9	8.82	48	9.24	
Kenosee Tilston Beds	426.7	7.92	46	9.38	
Kisbey Birdbear Pool	1018.3				
Lake Alma Ratcliffe Beds	1268.0	8.37	67	20.27	
Landrose McLaren Sand	+144.8				

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m	TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
Landrose Waseca Sand	+129.5				
Lashburn South Sparky Sand	+93.7				
Lashburn South Waseca Sand	+117.3				
Lashburn Waseca Sand	+126.5				
Lashburn West Sparky Sand	+81.4				
Leitchville Shaunavon	452.6	8.60	50	12.51	4.78 MPa @ 49°C
Leon Lake Shaunavon	457.2	8.60	52	10.69	5.52 MPa @ 41°C
Lightning Tilston Beds	449.6	7.92	46	9.39	
Lloydminster Sparky Sand	+83.8				
Lone Rock Sparky Sand	+71.6				
Lost Horse Hill Frobisher-Alida Beds	559.3	8.14	57	11.40	3.36 MPa @ 55°C
Lougheed Midale Beds	807.7	8.14	61		
Loverna Detrital	126.5	8.60			
Low Lake Waseca Sand	+111.3				
Lucky Hills Viking	7.6	8.37			
Macklin Sparky Sand	39.6				
Macoun Midale Beds	946.4	8.82	63		9.32 MPa @ 63°C
Macoun West Midale Beds	978.3				
Main Success Roseray Sand	225.6	8.60	50	9.06	8.67 MPa @ 59°C
Melrose Frobisher-Alida Beds	551.7	8.14	54		
Midale Central Midale Beds	800.1	7.92	63	14.31	6.09 MPa @ 63°C
Midale Central Frobisher Beds	786.4	7.69	62	14.20	5.24 MPa @ 57°C
Minard Midale Beds	738.5				
Moose Mountain Tilston Beds	435.9	8.48	46	9.45	3.14 MPa @ 41°C
Moose Valley Tilston Beds	428.2	8.60			
Morrisview Frobisher-Alida Beds	661.4	8.37	48	12.37	
Neilburg McLaren Sand	+103.9				
Neptune Ratcliffe Beds	1034.8	8.37			
North Antler Midale Beds	658.4	8.14	56	13.98	
Northgate Frobisher Beds	1033.3	8.14	63		
Northgate Midale Beds	1021.1	7.24	71	18.03	14.48 MPa @ 70°C
North Handsworth Alida Beds	538.0	8.60	55	11.08	
North Hoosier Bakken Sand	135.3	9.50	31	7.74	7.79 MPa @ 31°C
North Hoosier Basal Blairmore Sand	120.4	9.34	29	5.85	
Northminster North G.P. Sand	+83.2				
Northminster North Sparky Sand	+94.1				
Northminster Sparky Sand	+91.4				

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m	TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
North Premier Roseray Sand	228.6	8.60	47	9.25	3.12 MPa @ 47°C
North Premier Upper Shaunavon	310.9	8.82	57	10.31	0.89 MPa @ 49°C
Nottingham Alida Beds	548.6	7.15	43	10.60	10.66 MPa @ 44°C
Oakley Frobisher Beds	582.2	6.72	46	10.95	10.95 MPa
Oungre Ratcliffe Beds	1188.7	8.14	70	18.96	8.07 MPa
Parkman Souris Valley Beds	416.1	8.37	49	9.09	
Parkman Tilston Beds	442.0	7.92	43	9.51	2.79 MPa @ 43°C
Parkman Tilston-Souris Valley Beds	402.3	7.92	38	9.10	2.41 MPa @ 38°C
Parkman South Tilston-Souris Valley	455.7	8.23	38	9.45	
Pennant Upper Shaunavon	265.2	9.05			
Pikes Peak G.P. Sand	+81.0				
Pikes Peak Sparky Sand	+91.4				
Pikes Peak Waseca Sand	+123.4				
Pinto Midale Beds	1024.1	7.01	70	17.24	13.85 MPa @ 70°C
Pinto Frobisher Beds	1036.3	7.01	66	16.55	
Plato Viking Sand	9.1	8.37	24	6.89	3.28 MPa @ 21°C
Queensdale East Alida Beds	573.0	7.58	47	10.84	7.72 MPa @ 46°C
Queensdale North Alida Beds	588.3	7.58	49	10.85	
Queensdale West Alida Beds	600.5	7.58	48	11.25	11.24 MPa @ 48°C
Ralph Midale	723.9	7.92			
Rapdan Upper Shaunavon	449.6	8.60	49	13.72	5.61 MPa @ 56°C
Rocanville Bakken Sand	160.0	8.37	27	6.23	
Roncott Bakken Sand	1121.7	8.08	59		2.05 MPa @ 52°C
Rosebank Alida Beds	536.4	7.19	44	10.49	
Rosebank South Alida Beds	533.4	7.46	43		
Sherwood Frobisher Beds	701.0	7.92	56	12.27	8.76 MPa @ 56°C
Silverdale Sparky Sand	+68.6				
Silverton Frobisher Beds	618.7	8.37	49		
Skinner Lake Ratcliffe Beds	1008.9	8.37			
Smiley Dewar Viking Sand	15.2	7.99	23	6.47	6.36 MPa
Smiley Dewar Viking Chert	18.3	7.99	23	6.49	
Souris Flat Frobisher Beds	789.4	8.28	59	13.34	11.82 MPa @ 59°C
South Fletwode Tilston Beds	429.8	7.92	44	9.45	
South Success Roseray Sand	231.0	8.60	51	8.96	8.96 MPa @ 53°C
Standard Hill Waseca Sand	+109.7				
Star Valley Frobisher-Alida Beds	536.4	7.46	52	10.82	8.61 MPa @ 52°C
Steelman Midale Beds	853.4	7.01	67	14.34	14.34 MPa
Steelman Frobisher Beds	853.4	7.01	67	14.36	

POOL	DATUM METRES SUBSEA	PRESSURE GRADIENT kPa/m	TEMPERATURE AT DATUM DEPTH °C	VIRGIN PRESSURE AT DATUM DEPTH MPa	SATURATION PRESSURE
Storthoaks Alida-Tilston Beds	493.8	7.92	38	9.80	8.09 MPa @ 42°C
Stoughton Frobisher-Alida Beds	644.7	7.46	61	12.07	8.09 MPa @ 62°C
Stoughton South Frobisher Beds	647.7	7.46		14.13	
Success Roseray Sand Alpha	219.5	8.60	51	8.76	7.86 MPa @ 51°C
Suffield Roseray Sand	259.1	8.60	52	12.98	7.41 MPa @ 44°C
Suffield Upper Shaunavon	318.5	8.82	50	10.82	
Tangleflags East McLaren Sand	+139.6				
Tangleflags G.P. Sand	+100.6				
Tangleflags Lloydminster Sand	+61.0				
Tangleflags North Cummings Sand	+50.3				
Tangleflags North G.P. Sand	+99.1				
Tangleflags North Lloydminster Sand	+51.8				
Tangleflags Sparky Sand	+109.7				
Tangleflags West G.P. Sand	+102.9				
Tangleflags West Lloydminster Sand	+62.4				
Tangleflags West Sparky Sand	+113.5				
Tatagwa Midale Beds	857.4				
Verlo Roseray Sand	213.4	8.82	52	9.14	9.24 MPa @ 39°C
Viewfield Frobisher Beds	670.6	8.69	65	12.22	9.03 MPa @ 65°C
View Hill Midale Beds	957.1	8.75	76	15.69	
Wapella Sand	76.2	8.37	32	5.26	0.34 MPa @ 29°C
Warmley Alida Beds	496.2	8.37	54	10.15	
Weir Hill Frobisher Beds	762.0	7.24			
Westhazel G.P. Sand	+90.1				
Westhazel Sparky Sand	+103.8				
West Innes Frobisher Beds	722.4	8.60	64	13.07	
West Kingsford Midale Beds	876.3	7.01	67	14.82	9.40 MPa @ 67°C
Weyburn Midale Beds	807.7	8.14	61	14.60	
Weyburn Frobisher Beds	807.7	8.14	61		
White Bear Tilston Beds	445.0	7.92	43	9.74	
White Bear Tilston-Souris Valley Beds	457.2	8.37	39	9.47	2.41 MPa
Whitemud Upper Shaunavon	469.4	9.05	54	13.79	5.52 MPa @ 41°C
Whiteside Viking Sand	36.6	7.92	24	6.38	
Wildwood Alida Beds	582.2	8.37	48	10.77	
Willmar Frobisher-Alida Beds	661.4	7.24	54	11.87	11.32 MPa @ 53°C
Winmore Frobisher Beds	641.6	8.60		11.23	
Workman Midale Beds	685.8	7.24	54	14.75	7.64 MPa @ 53°C
Workman Frobisher Beds	701.0	7.69	54	12.27	6.55 MPa @ 59°C

INITIAL GAS POOL PRESSURE DATA

POOL	DATUM (METRES SUBSEA)	TEMPERATURE AT DATUM DEPTH (°C)	PSEUDO-REDUCED TEMPERATURE	PSEUDO-REDUCED PRESSURE	VIRGIN PRESSURE AT DATUM DEPTH (kPa)
Bayhurst Viking Gas Pool	+9.1	25	1.61	1.47	6700
Bayhurst West Viking Gas Pool	-7.6	28	1.60	1.47	6720
Beacon Hill Mannville Sand Gas Pool	+256.0	21	1.56	0.47	2170
Beverley East Cantuar Gas Pool	+170.0	46	1.67	2.11	9650
Brock Viking Sand Gas Pool	-3.0	28	1.59	1.46	6690
Brock East Viking Gas Pool	-7.6	29	1.62	1.55	7060
Coleville-Smiley Viking Sand Gas Pool	+12.2	24	1.50	1.40	6480
Dodsland North Viking Gas Pool	+21.3	23	1.50	1.33	6110
Glidden Viking Gas Pool	-1.5	22	1.57	1.47	6690
Greenan Viking Gas Pool	-15.2	28	1.61	1.45	6580
Gull Lake Cantuar Gas Pool	-259.1	43	1.59	2.05	9480
Hatton Medicine Hat Sand Gas Pool	+274.3	17	1.53	0.94	4310
Hatton Milk River Gas Pool	+321.6	16	1.53	0.75	3450
Hoosier Viking Sand Gas Pool	-18.3	26	1.52	1.43	6560
Liebenthal Milk River Gas Pool	+297.2	16	1.53	0.79	3630
Lloydminster Colony Sand Gas Pool	+134.1	23	1.54	0.70	3260
Marengo Viking Gas Pool	-10.7	21	1.48	1.47	6740
Milton Viking Sand Gas Pool	-18.3	23	1.49	1.42	6550
Pierceland Mannville Sand Gas Pool	+256.0	21	1.56	0.46	2100
Totnes Viking Gas Pool	-3.0	24	1.59	1.50	6830
Whiteside Victoria Sand Gas Pool	+481.6	20	1.53	0.43	2000

MPR FACTORS

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS) (A)	(ACRES)
232106	Aberfeldy Sparky Sand Pool	30	90	1	40
433007	Alameda Midale Beds Pool	35	75	2	80
435776	Alida East Alida Beds Pool	35	75	2	80
435777	Alida West Alida Beds Pool	35	77	2	80
239022	Alsask Basal Blairmore Sand Pool	25	75	1	40
331064	Antelope Lake Upper Shaunavon Pool	25	93	2	80
435024	Arcola Frobisher-Alida Beds Pool	35	79	2	80
227331	Avon Hill Viking Pool	35	90	2	80
232135	Baldwinton Sparky Sand Pool	30	90	1	40
430073	Battle Creek Madison Pool	25	90	2	80
331072	Battle Creek Upper Shaunavon Pool	25	90	2	80
314546	Battrum Roseray Sand Pool (Upper)	41	97.5	1 & 2	40 & 80
	(Main)	17	97.5	1 & 2	40 & 80
331060	Bench Upper Shaunavon Pool	25	75	4	160
433075	Benson Midale Beds Pool	50	89	2 & 4	80 & 160
238146	Beverley Cantuar Sand Pool	30	90	2	80
238148	Beverley North Cantuar Sand Pool	30	90	2	80
314641	Beverley Upper Roseray Sand Pool	35	90	1	40
231202	Big Gully McLaren Sand Pool	30	90	1	40
231309	Big Gully Waseca Sand Pool	30	90	1	40
331050	Bone Creek Upper Shaunavon Pool	15	94	2	80
435019	Browning Frobisher-Alida Beds Pool	35	75	2	80
433089	Bromhead Midale Beds Pool	35	75	4	160
435172	Bryant Frobisher Beds Pool	35	75	4	160
433099	Bryant Midale Beds Pool	35	89	4	160
441422	Buffalo Coulee Bakken Sand Pool	25	93	1/2	20
331059	Butte Upper Shaunavon Pool	25	96	4	160
234133	Buzzard Lloydminster Sand Pool	30	90	1	40
441426	Cactus Lake Bakken Sand Pool	25	95	1	40
435005	Cantal Frobisher-Alida Beds Pool	35	75	2	80
238143	Cantuar East Cantuar Sand Pool	30	90	2	80
314550	Cantuar East Roseray Sand Pool	35	90	2	80
238141	Cantuar Main Cantuar Sand Pool	30	90	1	40
314741	Cantuar Lower Roseray Sand Pool	35	95	1	40
433006	Carnduff Midale Beds Pool	35	75	2	80
435180	Carnduff Frobisher Beds Pool	35	75	2	80

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS)	(ACRES) (A)
230903	Celtic Blairmore Sands Pool	30	90	1	40
232122	Celtic Sparky Sand Pool	30	90	1	40
231313	Celtic Waseca Sand Pool	30	90	1	40
435021	Clarilaw Frobisher-Alida Beds Pool	35	75	2	80
330062	Clintonville Shaunavon Pool	25	90	4	160
441421	Coleville Bakken Sand Pool	15	93	1/2	20
331055	Covington Upper Shaunavon Pool	15	94	2	80
331071	Covington West Upper Shaunavon Pool	25	75	4	160
438030	Crystal Hill Souris Valley Beds Pool	40	90	4	160
435028	Dalesboro Frobisher-Alida Beds Pool	35	78	2	80
232125	Dee Valley East Sparky Sand Pool	30	90	1	40
231316	Dee Valley East Waseca Sand Pool	30	90	1	40
231310	Dee Valley Waseca Sand Pool	30	90	1	40
331046	Delta Upper Shaunavon Pool	25	93	2	80
227327	Dodsland Viking Sand Pool	35	90	1 & 2	40 & 80
331041	Dollard Upper Shaunavon Pool	5	91	4	160
232109	Dulwich North Sparky Sand Pool	30	90	1/2	20
232102	Dulwich Sparky Sand Pool	30	90	1/4	10
331056	Eastbrook Upper Shaunavon Pool	20	91	2	80
330074	Eastend Shaunavon Pool	20	91	2	80
435189	East Pinto Frobisher Beds Pool	35	75	2	80
433033	East Pinto Midale Beds Pool	35	75	2	80
231320	Edam Waseca Sand Pool	30	90	1	40
437032	Edenvale Tilston Beds Pool	40	90	2	80
433018	Elmore Midale Beds Pool	35	75	2	80
435184	Elmore Frobisher Beds Pool	45	86	2	80
232504	Epping G.P. Sand Pool	30	90	1/2 & 1	20 & 40
232104	Epping Sparky Sand Pool	30	90	1/2 & 1	20 & 40
227323	Eureka Viking Pool	35	90	1	40
235002	Eyehill Cummings Sand Pool	30	90	1	40
432085	Flat Lake Ratcliffe Beds Pool	35	80	4	160
435187	Florence Frobisher Beds Pool	35	75	2	80
230902	Forest Bank Mannville Sands Pool	30	90	1	40
232123	Forest Bank Sparky Sand Pool	30	90	1	40
231305	Forest Bank Waseca Sand Pool	30	90	1	40
314541	Fosterton Roseray Sand Pool	16	95	1	40

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS)	(ACRES) (A)
232130	Freemont Sparky Sand Pool	30	90	1	40
231315	Freemont Waseca Sand Pool	30	90	1	40
435082	Freestone Frobisher-Alida Beds Pool	35	75	2	80
432090	Freda Lake Ratcliffe Beds Pool	35	90	4	160
437579	Frys Tilston-Souris Valley Beds Pool	40	90	2	80
232113	Furness Sparky Sand Pool	30	90	1/4	10
441425	Fusilier Bakken Sand Pool	25	95	1	40
435009	Gainsborough Frobisher-Alida Beds Pool	30	75	2	80
433008	Glen Ewen Midale Beds Pool	35	75	4	160
435181	Glen Ewen Frobisher Beds Pool	35	75	4	160
232112	Golden Lake North Sparky Sand Pool	30	90	1	40
231306	Golden Lake North Waseca Sand Pool	30	90	1	40
232107	Golden Lake South Sparky Sand Pool	30	90	1	40
231308	Golden Lake South Waseca Sand Pool	30	90	1	40
435168	Griffin Frobisher Beds Pool	35	89	2	80
238142	Gull Lake Basal Cantuar Sand Pool	35	92	1	40
331058	Gull Lake Central Upper Shaunavon Pool	25	97	2	80
331043	Gull Lake North Upper Shaunavon Pool	25	97	1	40
331057	Gull Lake South Upper Shaunavon Pool	25	97	4	160
231307	Gully Lake Waseca Sand Pool	30	90	1	40
435761	Handsworth Alida Beds Pool	35	75	2	80
435087	Hartaven Frobisher-Alida Beds Pool	40	89	2	80
435177	Hastings Frobisher Beds Pool	35	75	2	80
437027	Hazelwood Tilston Beds Pool	40	90	2	80
314548	Hazlet Roseray Sand Pool	21	94.7	2	80
432094	Hoffer Ratcliffe Lower Beds Pool	35	80	4	160
432093	Hoffer Ratcliffe Upper Beds Pool	35	80	4	160
441424	Hoosier Bakken Sand Pool	25	95	1	40
435167	Hume Frobisher Beds Pool	35	89	4	160
433091	Hume Midale Beds Pool	35	89	2 & 4	80 & 160
521029	Hummingbird Birdbear Pool	25	83	2	80
432088	Hummingbird Ratcliffe Beds Pool	25	75	2	80
435163	Huntoon Frobisher Beds Pool	50	89	2 & 4	80 & 160
		35	89	2 & 4	80 & 160
433079	Huntoon Midale Beds Pool	50	89	2 & 4	80 & 160

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS) (A)	(ACRES)
331054	Illerbrun Upper Shaunavon Pool	15	94	4	160
435003	Ingoldsby Frobisher-Alida Beds Pool	35	89	2	80
435165	Innes Frobisher Beds Pool	35	89	2	80
331049	Instow Upper Shaunavon Pool	5	94	4	160
331042	Johnston Upper Shaunavon Pool	25	97	1	40
437016	Kenosee Tilston Beds Pool	40	90	2	80
521034	Kisbey Birdbear Pool	40	75	2	80
432086	Lake Alma Ratcliffe Beds Pool	35	80	4	160
231201	Landrose McLaren Sand Pool	30	90	1/2	20
231301	Landrose Waseca Sand Pool	30	90	1/2	20
232129	Lashburn South Sparky Sand Pool	30	90	1	40
231314	Lashburn South Waseca Sand Pool	30	90	1	40
231303	Lashburn Waseca Sand Pool	30	90	1	40
232137	Lashburn West Sparky Sand Pool	30	90	1	40
330047	Leitchville Shaunavon Pool	35	90	4	160
330048	Leon Lake Shaunavon Pool	25	90	4	160
437023	Lightning Tilston Beds Pool	40	90	2	80
232124	Lloydminster Sparky Sand Pool	30	90	1/2	20
232103	Lone Rock Sparky Sand Pool	30	90	1/4	10
435073	Lost Horse Hill Frobisher-Alida Beds Pool	45	89	2	80
433081	Lougheed Midale Beds Pool	35	89	2	80
240024	Loverna Detrital Pool	25	75	1	40
231302	Low Lake Waseca Sand Pool	30	90	1/2	20
227335	Lucky Hills Viking Pool	35	90	2 & 4	80 & 160
232126	Macklin Sparky Sand Pool	30	90	1	40
433095	Macoun Midale Beds Pool	35	89	4	160
433069	Macoun West Midale Beds Pool	40	89	4	160
314543	Main Success Roseray Sand Pool	30	93	1	40
232105	Marsden Sparky Sand Pool	30	90	1/4	10
435080	Melrose Frobisher-Alida Beds Pool	45	89	2	80
433072	Midale Central Midale Beds Pool	50	89	2	80
435161	Midale Central Frobisher Beds Pool	50	89	2	80
433070	Minard Midale Beds Pool	35	89	4	160
437014	Moose Mountain Tilston Beds Pool	40	90	2	80
437076	Moose Valley Tilston Beds Pool	40	90	2	80
435031	Morrisview Frobisher-Alida Beds Pool	35	80	2	80

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS)	(ACRES) (A)
231203	Neilburg McLaren Sand Pool	30	90	1	40
432092	Neptune Ratcliffe Beds Pool	35	80	4	160
433026	North Antler Midale Beds Pool	35	75	2	80
433020	Northgate Midale Beds Pool	35	75	2	80
435185	Northgate Frobisher Beds Pool	35	75	4	160
435762	North Handsworth Alida Beds Pool	35	75	2	80
441423	North Hoosier Bakken Sand Pool	25	95	1	40
230121	North Hoosier Basal Blairmore Sand Pool	25	90	1	40
232509	Northminster North G.P. Sand Pool	30	90	1	40
232134	Northminster North Sparky Sand Pool	30	90	1	40
232108	Northminster Sparky Sand Pool	30	90	1	40
314542	North Premier Roseray Sand Pool	25	93	1	40
331044	North Premier Upper Shaunavon Pool	25	93	1	40
435780	Nottingham Alida Beds Pool	35	75	2	80
		22	75	2	80
435178	Oakley Frobisher Beds Pool	35	75	2	80
432083	Oungre Ratcliffe Beds Pool	35	80	2	80
438022	Parkman Souris Valley Beds Pool	50	90	2	80
437578	Parkman South Tilston-Souris Valley Beds Pool	40	90	2	80
437013	Parkman Tilston Beds Pool	40	90	2	80
437576	Parkman Tilston-Souris Valley Beds Pool	40	90	1 & 2	40 & 80
		50	90	1 & 2	40 & 80
331061	Pennant Upper Shaunavon Pool	25	95	2	80
232507	Pikes Peak G.P. Sand Pool	30	90	1	40
232128	Pikes Peak Sparky Sand Pool	30	90	1	40
231312	Pikes Peak Waseca Sand Pool	30	90	1	40
433015	Pinto Midale Beds Pool	35	75	2 & 4	80 & 160
435182	Pinto Frobisher Beds Pool	35	75	2 & 4	80 & 160
227333	Plato Viking Pool	35	90	2	80
435010	Queensdale East Frobisher-Alida Beds Pool	35	75	2	80
435782	Queensdale North Alida Beds Pool	35	75	2	80
435781	Queensdale West Alida Beds Pool	35	75	2	80
433097	Ralph Midale Beds Pool	35	89	2	80
331045	Rapdan Upper Shaunavon Pool	20	91	4	160
330063	Rapdan West Shaunavon Pool	20	91	4	160
441476	Rocanville Bakken Sand Pool	35	75	2	80

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS) (A)	(ACRES)
441477	Roncott Bakken Sand Pool	25	94	2	80
435779	Rosebank Alida Beds Pool	35	79	2	80
435778	Rosebank South Alida Beds Pool	35	79	2	80
435164	Sherwood Frobisher Beds Pool	35	86	2	80
432096	Skinner Lake Ratcliffe Beds Pool	35	80	4	160
232101	Silverdale Sparky Sand Pool	30	90	1/4	10
435179	Silverton Frobisher Beds Pool	35	75	2	80
227023	Smiley-Dewar Viking Pool	35	90	1	40
435186	Souris Flat Frobisher Beds Pool	35	75	2	80
437002	South Fletwode Tilston Beds Pool	40	90	2	80
314545	South Success Roseray Sand Pool	30	93	1	40
231311	Standard Hill Waseca Sand Pool	30	90	1	40
435001	Star Valley Frobisher-Alida Beds Pool	35	81	1 & 2	40 & 80
433004	Steelman Midale Beds Pool	35	72	2	80
435176	Steelman Frobisher Beds Pool	35	75	2	80
436276	Storthoaks Alida-Tilston Beds Pool	35	79	2	80
		40	90	2	80
435078	Stoughton Frobisher-Alida Beds Pool	35	86	2	80
435171	Stoughton South Frobisher Beds Pool	35	86	2	80
314544	Success Roseray Sand Alpha Pool	30	93	1	40
314549	Suffield Roseray Sand Pool	35	95	1 & 2	40 & 80
331052	Suffield Upper Shaunavon Pool	25	97	2	80
231204	Tangleflags East McLaren Sand Pool	30	90	1	40
232505	Tangleflags G.P. Sand Pool	30	90	1	40
234121	Tangleflags Lloydminster Sand Pool	30	90	1	40
230901	Tangleflags Mannville Sands Pool	30	90	1	40
235004	Tangleflags North Cummings Sand Pool	30	90	1	40
232506	Tangleflags North G.P. Sand Pool	30	90	1	40
234127	Tangleflags North Lloydminster Sand Pool	30	90	1	40
232114	Tangleflags Sparky Sand Pool	30	90	1	40
232508	Tangleflags West G.P. Sand Pool	30	90	1	40
234132	Tangleflags West Lloydminster Sand Pool	30	90	1	40
232131	Tangleflags West Sparky Sand Pool	30	90	1	40
433098	Tatagwa Midale Beds Pool	35	75	2	80
314547	Verlo Roseray Sand Pool	21	90	2	80
435170	Viewfield Frobisher Beds Pool	35	86	2	80
433071	Viewhill Midale Beds Pool	50	89	4	160

MAXIMUM PERMISSIVE RATE FACTORS

HORIZON POOL CODE	POOL NAME	AVERAGE INTERSTITIAL WATER (Sw)	AVERAGE SHRINKAGE FACTOR (I/Boi)	ASSIGNED AREA (LSDS)	(ACRES) (A)
238661	Wapella Sand Pool	25	99	1	40
435784	Warmley Alida Beds Pool	35	90	2	80
435189	Weir Hill Frobisher Beds Pool	35	75	2	80
232510	Westhazel G.P. Sand Pool	30	90	1	40
232136	Westhazel Sparky Sand Pool	30	90	1	40
435166	West Innes Frobisher Beds Pool	35	89	2	80
433077	West Kingsford Midale Beds Pool	35	83.6	2	80
433074	Weyburn Midale Beds Pool	35	89	2	80
		50	89	2	80
435162	Weyburn Frobisher Beds Pool	35	89	2	80
437012	White Bear Tilston Beds Pool	40	90	2	80
437577	White Bear Tilston-Souris Valley Beds Pool	40	90	2	80
		50	90	2	80
331051	Whitemud Upper Shaunavon Pool	20	91	4	160
227326	Whiteside Viking Sand Pool	40	91	2	80
435783	Wildwood Alida Beds Pool	35	75	2	80
435011	Willmar Frobisher-Alida Beds Pool	25	78	2	80
435188	Winmore Frobisher Beds Pool	45	85	2	80
433017	Workman Midale Beds Pool	35	79	2	80
435183	Workman Frobisher Beds Pool	35	84	2	80

GAS PLANT

PERFORMANCE GRAPHS

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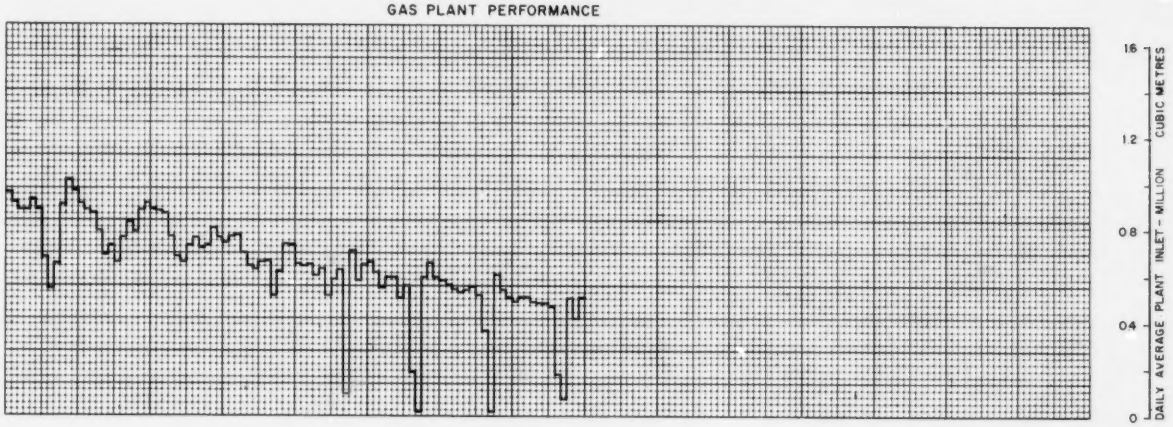
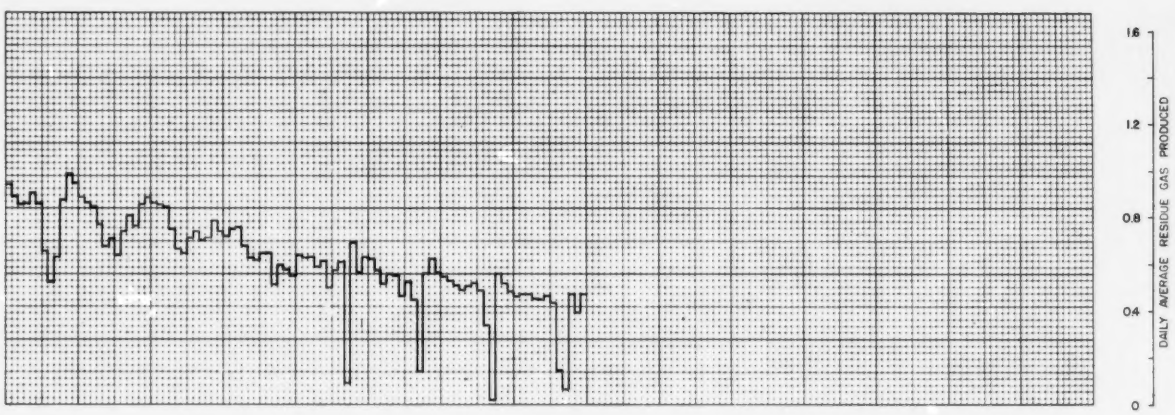
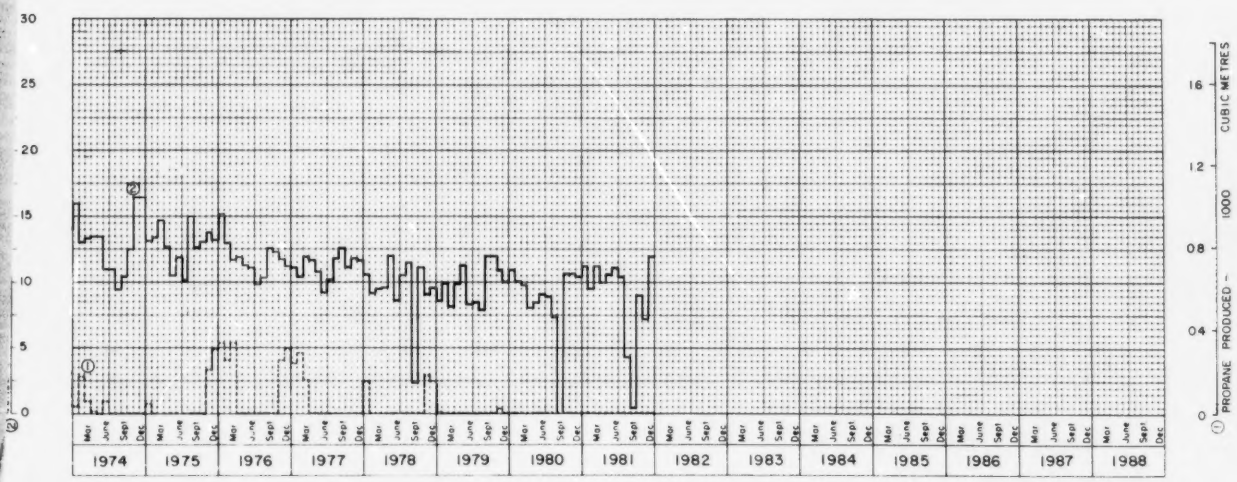
COLEVILLE GAS PLANT

GAS PLANT PERFORMANCE



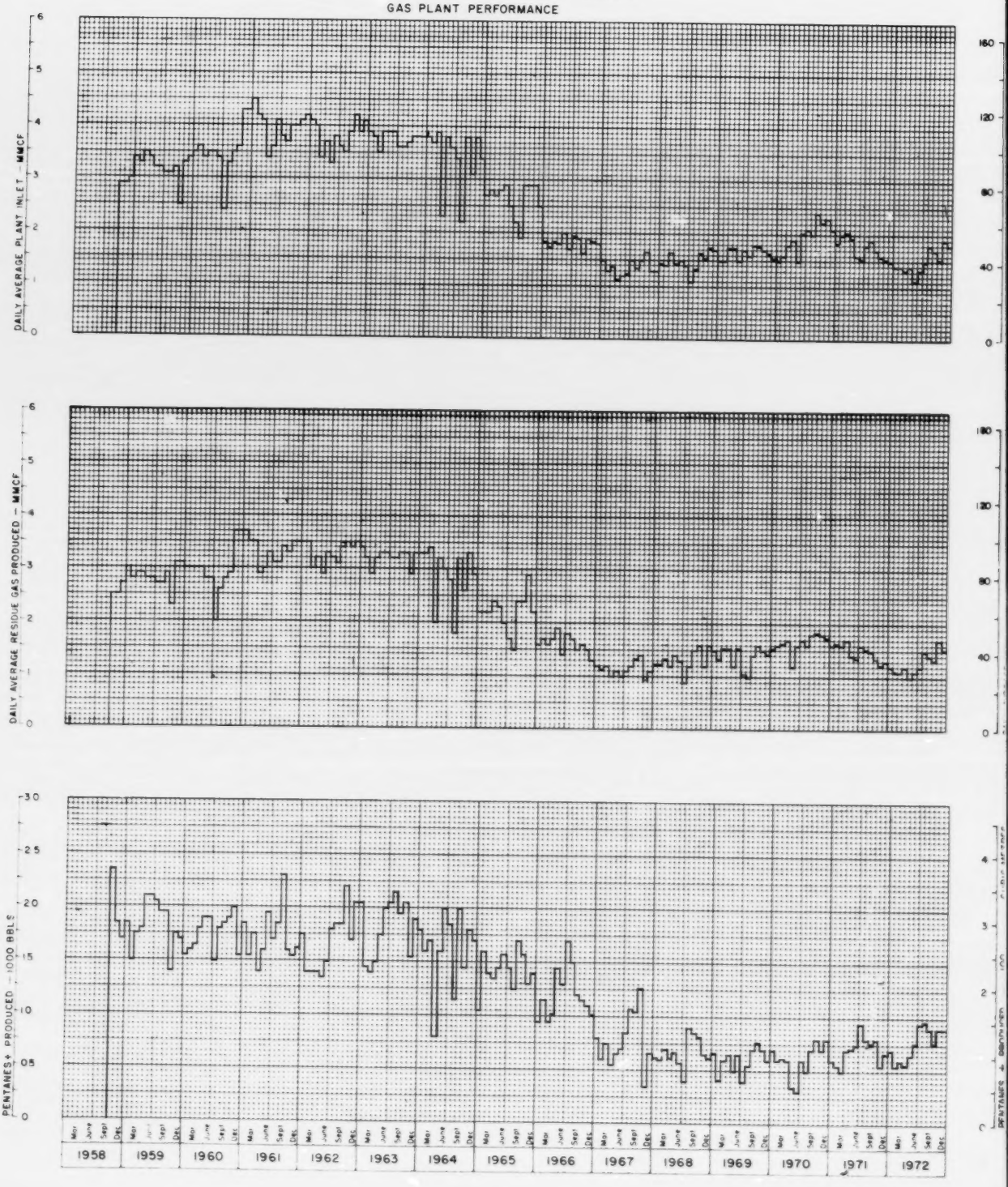




SMILEY GAS CONSERVATION PLANT

SMILEY-DEWAR VIKING SAND

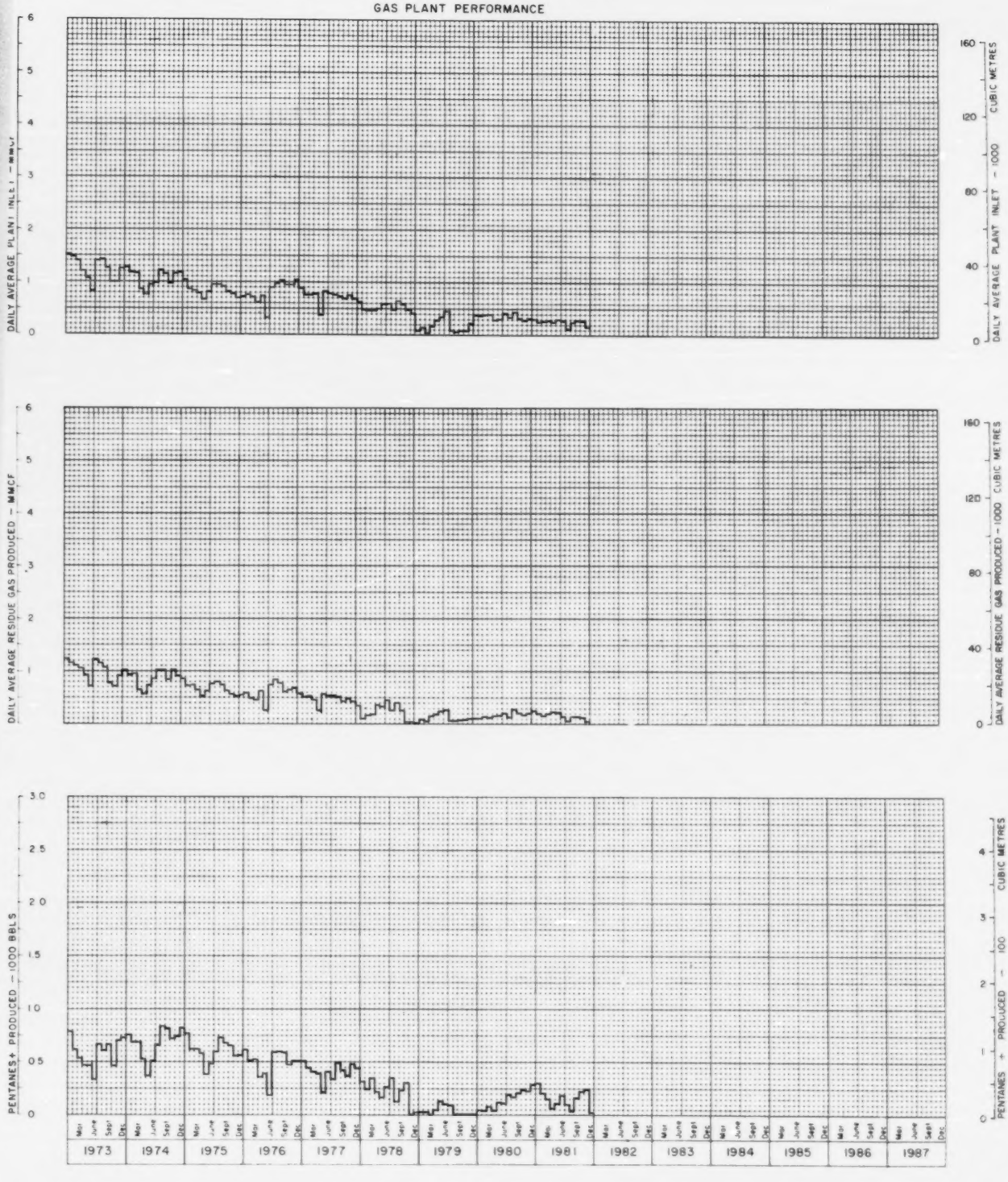
GAS PLANT PERFORMANCE



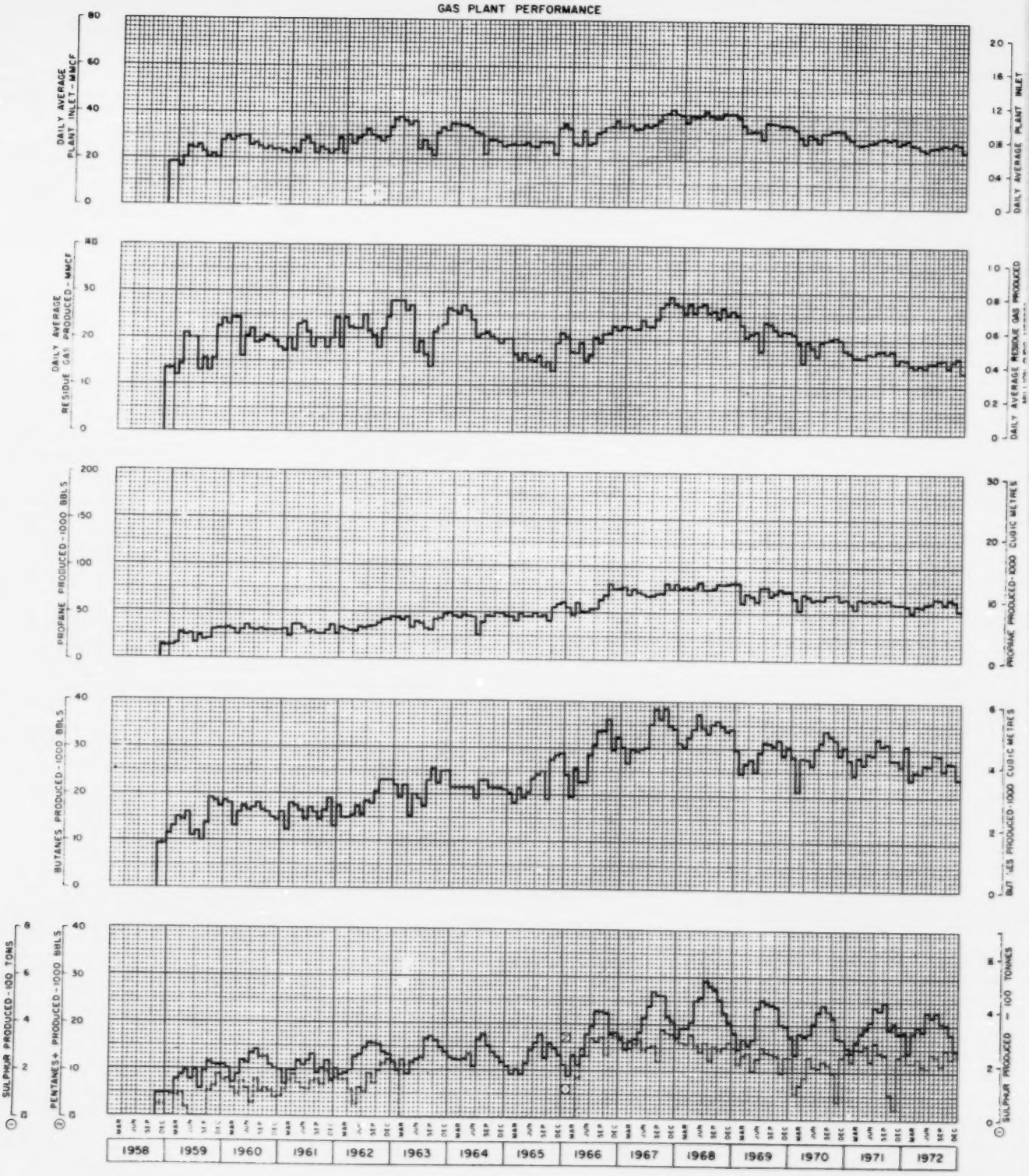
SMILEY GAS CONSERVATION PLANT

SMILEY-DEWAR VIKING SAND

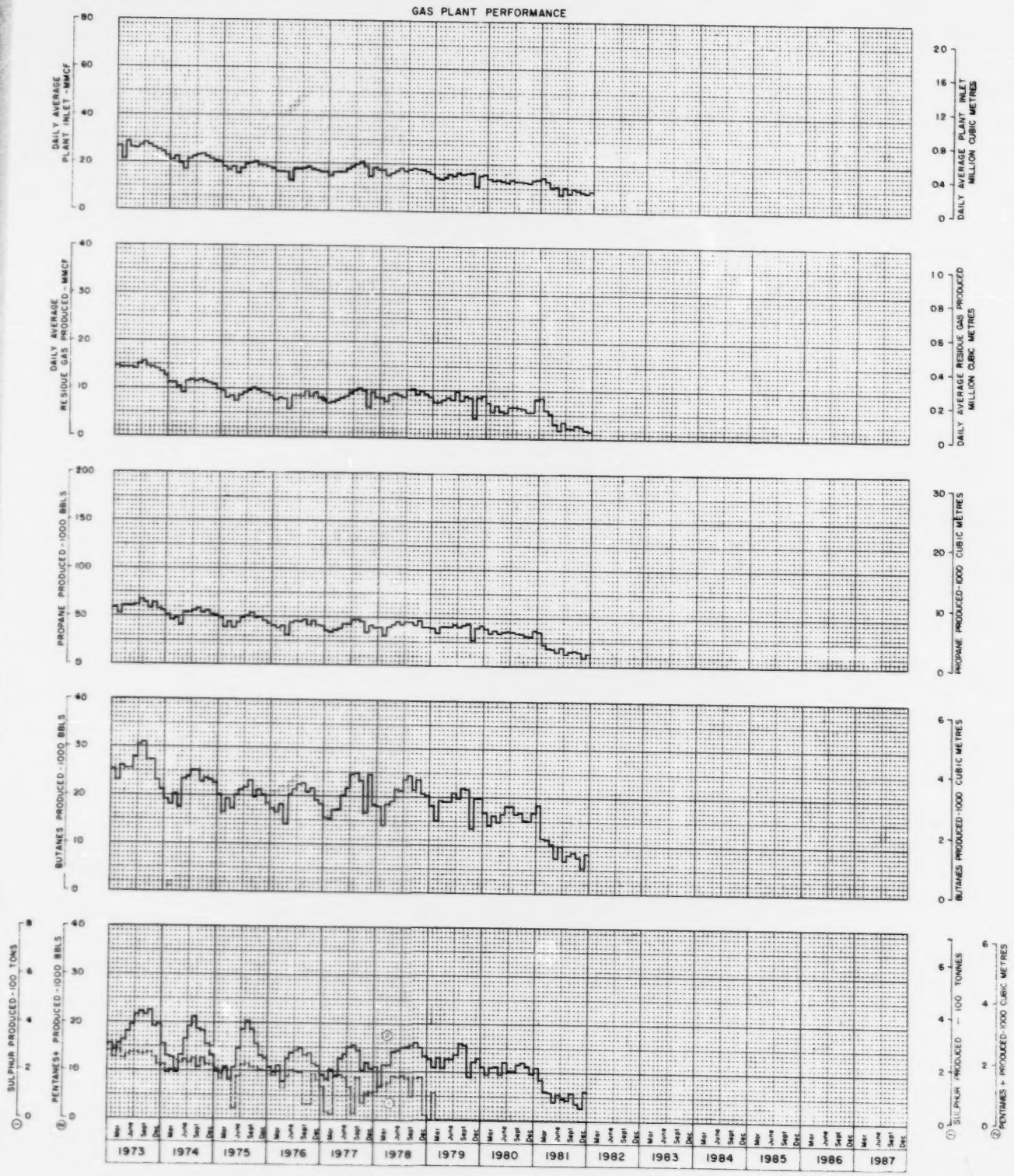
GAS PLANT PERFORMANCE



STEELMAN GAS PLANT



STEELMAN GAS PLANT


GAS PLANT PERFORMANCE
DAILY AVERAGE PLANT INLET - MMCF
DAILY AVERAGE PLANT INLET MILLION CUBIC METRES
DAILY AVERAGE RESIDUE GAS PRODUCED - MMCF
DAILY AVERAGE RESIDUE GAS PRODUCED MILLION CUBIC METRES
PROPANE PRODUCED - 1000 BBLS
PROPANE PRODUCED - 1000 CUBIC METRES
BUTANES PRODUCED - 1000 BBLS
BUTANES PRODUCED - 1000 CUBIC METRES
SULPHUR PRODUCED - 100 TONS
PENTANES+ PRODUCED - 1000 BBLS
① SULPHUR PRODUCED - 100 TONNES
② PENTANES + PRODUCED - 1000 CUBIC METRES
Mar June Sept Dec
1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987

FORMATION WATER

RESISTIVITY

RESISTIVITY OF FO

20°C

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 1 RGE 30 W1	FROBISHER	1	0.059	0.059
TWP 2 RGE 30 W1	BLAIRMORE	1	1.000	1.000
	FROBISHER	1	0.057	0.057
	FROBISHER-ALIDA	11	0.047 - 0.060	0.054
TWP 3 RGE 30 W1	FROBISHER-ALIDA	3	0.048 - 0.064	0.054
	ALIDA	8	0.048 - 0.066	0.057
	TILSTON	1	0.063	0.063
	SOURIS VALLEY	2	0.055 - 0.066	0.061
	BIRDBEAR	1	0.057	0.057
TWP 4 RGE 30 W1	TILSTON	1	0.078	0.078
TWP 5 RGE 30 W1	TILSTON	1	0.170	0.170
TWP 6 RGE 30 W1	TILSTON	2	0.115 - 0.120	0.118
	SOURIS VALLEY	2	0.160	0.160
TWP 7 RGE 30 W1	SOURIS VALLEY	1	0.210	0.210
TWP 9 RGE 30 W1	SOURIS VALLEY	2	0.160 - 0.182	0.171
TWP 10 RGE 30 W1	BLAIRMORE	1	0.302	0.302
	SOURIS VALLEY	1	0.228	0.228
TWP 16 RGE 30 W1	BAKKEN	1	0.184	0.184
TWP 17 RGE 30 W1	INTERLAKE	2	0.033 - 0.035	0.034
	STONY MOUNTAIN-RED RIVER	1	0.045	0.045
	WINNIPEG	4	0.037 - 0.070	0.047
TWP 20 RGE 30 W1	BAKKEN	1	0.680	0.680
TWP 26 RGE 30 W1	DUPEROW	1	0.300	0.300
TWP 1 RGE 31 W1	BLAIRMORE	4	0.957 - 1.070	1.019
	MIDALE	6	0.063 - 0.078	0.074
	FROBISHER	9	0.041 - 0.056	0.048
TWP 2 RGE 31 W1	FROBISHER	5	0.050 - 0.075	0.064
	FROBISHER-ALIDA	2	0.052 - 0.066	0.059
	ALIDA	1	0.060	0.060
TWP 3 RGE 31 W1	FROBISHER	4	0.043 - 0.059	0.051
	FROBISHER-ALIDA	8	0.049 - 0.076	0.061
TWP 4 RGE 31 W1	FROBISHER-ALIDA	14	0.042 - 0.069	0.050
	ALIDA	18	0.053 - 0.078	0.066
	TILSTON	3	0.046 - 0.070	0.060
TWP 5 RGE 31 W1	FROBISHER-ALIDA	2	0.060 - 0.066	0.063
	ALIDA-TILSTON	2	0.048 - 0.059	0.054
	TILSTON	3	0.055 - 0.070	0.064
TWP 6 RGE 31 W1	TILSTON	2	0.095 - 0.097	0.096
TWP 7 RGE 31 W1	SOURIS VALLEY	3	0.110 - 0.120	0.113
TWP 9 RGE 31 W1	SOURIS VALLEY	1	0.152	0.152
TWP 12 RGE 31 W1	VIKING	1	0.400	0.400
	GRAVELBOURG	1	0.800	0.800
	SOURIS VALLEY	1	0.300	0.300
	BIRDBEAR	1	0.090	0.090

RMATION WATERS

REA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
P 14 RGE 31 W1	SOURIS VALLEY	1	0.228	0.228
P 15 RGE 31 W1	BLAIRMORE	2	0.600 - 0.620	0.610
	GRAVELBOURG	1	0.340	0.340
	SOURIS VALLEY	1	0.058	0.058
P 16 RGE 31 W1	BAKKEN	7	0.200 - 0.235	0.220
P 17 RGE 31 W1	BAKKEN	1	0.182	0.182
P 24 RGE 31 W1	SOURIS VALLEY	1	0.104	0.104
P 25 RGE 31 W1	WINNIPEG	1	0.047	0.047
P 1 RGE 32 W1	MIDALE	5	0.068 - 0.076	0.072
	FROBISHER	10	0.044 - 0.060	0.051
P 2 RGE 32 W1	BLAIRMORE	3	0.950 - 0.970	0.958
	MIDALE	1	0.070	0.070
	FROBISHER	2	0.040 - 0.049	0.045
	FROBISHER-ALIDA	1	0.040	0.040
P 3 RGE 32 W1	FROBISHER	2	0.044 - 0.047	0.046
	BIRDBEAR	1	0.070	0.070
	DUPEROW	2	0.061 - 0.064	0.063
	SOURIS RIVER	1	0.058	0.058
	SILURIAN	2	0.066	0.066
	WINNIPEG	1	0.060	0.060
P 4 RGE 32 W1	BLAIRMORE	2	0.870 - 0.890	0.880
	JURASSIC	1	0.320	0.320
	GRAVELBOURG	1	0.200	0.200
	FROBISHER	1	0.047	0.047
	FROBISHER-ALIDA	2	0.047 - 0.048	0.048
	ALIDA	9	0.047 - 0.070	0.058
	SOURIS VALLEY	1	0.055	0.055
P 5 RGE 32 W1	FROBISHER-ALIDA	5	0.057 - 0.070	0.064
	ALIDA	12	0.047 - 0.067	0.058
	TILSTON	2	0.056 - 0.057	0.057
P 6 RGE 32 W1	TILSTON	5	0.052 - 0.077	0.060
	BIRDBEAR	1	0.060	0.060
	SOURIS RIVER	1	0.060	0.060
	WINNIPEGOSIS	1	0.060	0.060
	INTERLAKE	2	0.060	0.060
P 7 RGE 32 W1	TILSTON	7	0.047 - 0.092	0.075
	TILSTON-SOURIS VALLEY	1	0.076	0.076
8 RGE 32 W1	TILSTON	1	0.094	0.094
	SOURIS VALLEY	2	0.100 - 0.102	0.101
	INTERLAKE	2	0.046 - 0.047	0.047
9 RGE 32 W1	SOURIS VALLEY	3	0.131 - 0.180	0.160
16 RGE 32 W1	BAKKEN	1	0.260	0.260
17 RGE 32 W1	BAKKEN	3	0.187 - 0.310	0.246
	WINNIPEGOSIS	1	0.053	0.053

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 17 RGE 32 W1	INTERLAKE	1	0.052	0.052
	WINNIPEG	1	0.052	0.052
TWP 29 RGE 32 W1	SOURIS RIVER	1	0.150	0.150
	SOURIS RIVER-DAWSON BAY	1	0.093	0.093
	DAWSON BAY	2	0.078 - 0.094	0.086
TWP 1 RGE 33 W1	MIDALE	2	0.077 - 0.078	0.078
	FROBISHER	6	0.043 - 0.059	0.050
TWP 2 RGE 33 W1	BLAIRMORE	1	0.843	0.843
	MIDALE	22	0.051 - 0.094	0.078
	FROBISHER-ALIDA	4	0.047 - 0.060	0.054
TWP 3 RGE 33 W1	RAVENSCRAG	1	2.400	2.400
	FROBISHER	3	0.049 - 0.061	0.054
	FROBISHER-ALIDA	4	0.044 - 0.058	0.052
TWP 4 RGE 33 W1	FROBISHER	8	0.047 - 0.052	0.049
	FROBISHER-ALIDA	13	0.049 - 0.080	0.063
TWP 5 RGE 33 W1	BLAIRMORE	2	0.780 - 0.920	0.850
	RIERDON	2	0.270 - 0.370	0.320
	GRAVELBOURG	1	0.320	0.320
	KISBEY	1	0.070	0.070
	FROBISHER-ALIDA	7	0.047 - 0.070	0.059
	ALIDA	11	0.046 - 0.068	0.054
	ALIDA-TILSTON	1	0.055	0.055
	BIRDBEAR	1	0.050	0.050
TWP 6 RGE 33 W1	FROBISHER-ALIDA	6	0.055 - 0.075	0.063
	ALIDA	11	0.047 - 0.060	0.054
	TILSTON	2	0.053 - 0.057	0.055
TWP 7 RGE 33 W1	TILSTON	2	0.051 - 0.062	0.057
TWP 8 RGE 33 W1	TILSTON	4	0.086 - 0.124	0.110
	TILSTON-SOURIS VALLEY	4	0.084 - 0.108	0.094
	SOURIS VALLEY	2	0.105 - 0.158	0.132
	WINNIPEGOSIS	1	0.056	0.056
TWP 9 RGE 33 W1	TILSTON	9	0.093 - 0.131	0.114
	TILSTON-SOURIS VALLEY	5	0.125 - 0.148	0.136
	SOURIS VALLEY	13	0.105 - 0.148	0.131
TWP 14 RGE 33 W1	BLAIRMORE	1	0.302	0.302
	JURASSIC	1	0.316	0.316
TWP 20 RGE 33 W1	BLAIRMORE	2	0.240 - 0.265	0.253
	SOURIS RIVER	1	0.049	0.049
TWP 26 RGE 33 W1	WINNIPEG	1	0.048	0.048
TWP 1 RGE 34 W1	MIDALE	4	0.069 - 0.070	0.070
	FROBISHER	2	0.045	0.045
TWP 2 RGE 34 W1	MIDALE	34	0.045 - 0.092	0.069
	FROBISHER	11	0.042 - 0.057	0.048
	FROBISHER-ALIDA	8	0.048 - 0.054	0.049
TWP 3 RGE 34 W1	FROBISHER	7	0.039 - 0.060	0.050
	FROBISHER-ALIDA	4	0.040 - 0.045	0.044
TWP 4 RGE 34 W1	BLAIRMORE	2	0.690 - 0.750	0.720
	FROBISHER	5	0.046 - 0.052	0.048
	FROBISHER-ALIDA	11	0.040 - 0.050	0.046
TWP 5 RGE 34 W1	FROBISHER	9	0.046 - 0.064	0.053
	FROBISHER-ALIDA	10	0.045 - 0.070	0.054
TWP 6 RGE 34 W1	FROBISHER-ALIDA	8	0.048 - 0.060	0.052
	ALIDA	1	0.056	0.056
TWP 9 RGE 34 W1	TILSTON	2	0.092 - 0.159	0.126
	TILSTON-SOURIS VALLEY	1	0.098	0.098
	SOURIS VALLEY	1	0.086	0.086
TWP 11 RGE 34 W1	MADISON (UNDIFF)	1	0.240	0.240
	BIRDBEAR	1	0.071	0.071
TWP 2 RGE 1 W2	RATCLIFFE	1	0.060	0.060
	MIDALE	6	0.051 - 0.075	0.066
	FROBISHER	2	0.058 - 0.059	0.059
	FROBISHER-ALIDA	2	0.040 - 0.049	0.045
TWP 3 RGE 1 W2	BLAIRMORE	1	0.704	0.704
	MIDALE	23	0.046 - 0.077	0.064
	FROBISHER	12	0.040 - 0.054	0.046
	FROBISHER-ALIDA	9	0.044 - 0.052	0.049
TWP 4 RGE 1 W2	FROBISHER	21	0.040 - 0.055	0.049
	FROBISHER-ALIDA	12	0.041 - 0.051	0.045
TWP 5 RGE 1 W2	BLAIRMORE	2	0.790 - 0.840	0.815
	RIERDON	3	0.300 - 0.350	0.333
	FROBISHER	1	0.048	0.048
	FROBISHER-ALIDA	4	0.046 - 0.060	0.053
	ALIDA	1	0.049	0.049
	BIRDBEAR	1	0.048	0.048
TWP 6 RGE 1 W2	FROBISHER-ALIDA	22	0.045 - 0.058	0.050
	ALIDA	1	0.048	0.048
TWP 7 RGE 1 W2	ALIDA	1	0.052	0.052
	TILSTON	3	0.055 - 0.060	0.058
TWP 9 RGE 1 W2	TILSTON	11	0.072 - 0.094	0.082
	SOURIS VALLEY	1	0.102	0.102
TWP 10 RGE 1 W2	TILSTON	3	0.081 - 0.086	0.083
	SOURIS VALLEY	5	0.082 - 0.140	0.096
TWP 11 RGE 1 W2	SOURIS VALLEY	2	0.190 - 0.220	0.205
TWP 14 RGE 1 W2	BLAIRMORE	2	0.390 - 0.630	0.510
	JURASSIC	12	0.220 - 0.560	0.380
TWP 15 RGE 1 W2	GRAVELBOURG	1	0.310	0.310
TWP 16 RGE 1 W2	BLAIRMORE	1	0.490	0.490
	JURASSIC	1	0.290	0.290
TWP 1 RGE 2 W2	RATCLIFFE	1	0.047	0.047
	MIDALE	1	0.048	0.048

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 1 RGE 2 W2	FROBISHER	4	0.034 - 0.052	0.044
	FROBISHER-ALIDA	2	0.045	0.045
	BIRDBEAR	1	0.052	0.052
TWP 2 RGE 2 W2	RATCLIFFE	2	0.051 - 0.060	0.056
	FROBISHER	1	0.054	0.054
	INTERLAKE	1	0.048	0.048
	RED RIVER	1	0.047	0.047
	DEADWOOD	1	0.046	0.046
TWP 3 RGE 2 W2	BLAIRMORE	7	0.414 - 0.700	0.567
	MIDALE	30	0.045 - 0.070	0.057
	FROBISHER	10	0.044 - 0.060	0.051
TWP 4 RGE 2 W2	FROBISHER	8	0.052 - 0.062	0.055
TWP 5 RGE 2 W2	FROBISHER	6	0.051 - 0.062	0.058
	FROBISHER-ALIDA	2	0.047 - 0.051	0.049
TWP 6 RGE 2 W2	FROBISHER	3	0.046 - 0.053	0.048
	FROBISHER-ALIDA	5	0.047 - 0.061	0.054
	KISBEY	1	0.042	0.042
	ALIDA	2	0.046 - 0.056	0.051
TWP 7 RGE 2 W2	ALIDA	2	0.053 - 0.054	0.054
	ALIDA-TILSTON	1	0.050	0.050
TWP 8 RGE 2 W2	TILSTON	1	0.053	0.053
TWP 9 RGE 2 W2	TILSTON	1	0.067	0.067
	SOURIS VALLEY	1	0.068	0.068
TWP 10 RGE 2 W2	TILSTON	7	0.083 - 0.116	0.092
	SOURIS VALLEY	3	0.083 - 0.164	0.113
	BIRDBEAR	1	0.053	0.053
TWP 11 RGE 2 W2	SOURIS VALLEY	1	0.205	0.205
	BIRDBEAR	1	0.077	0.077
TWP 12 RGE 2 W2	WINNIPEGOSIS	1	0.047	0.047
TWP 18 RGE 2 W2	JURASSIC	1	0.205	0.205
TWP 21 RGE 2 W2	RED RIVER	1	0.037	0.037
	WINNIPEG	1	0.039	0.039
TWP 1 RGE 3 W2	MIDALE	5	0.044 - 0.047	0.045
	FROBISHER	1	0.044	0.044
	FROBISHER-ALIDA	1	0.052	0.052
TWP 2 RGE 3 W2	BLAIRMORE	2	0.700 - 0.840	0.770
	RATCLIFFE	1	0.070	0.070
	MIDALE	1	0.049	0.049
	FROBISHER	5	0.035 - 0.047	0.042
TWP 3 RGE 3 W2	BLAIRMORE	1	0.398	0.398
	MIDALE	9	0.053 - 0.067	0.061
	FROBISHER	4	0.046 - 0.062	0.055
	FROBISHER-ALIDA	1	0.058	0.058
TWP 4 RGE 3 W2	MIDALE	1	0.046	0.046
	FROBISHER	3	0.048 - 0.060	0.053
	FROBISHER-ALIDA	1	0.055	0.055
TWP 5 RGE 3 W2	FROBISHER	6	0.050 - 0.060	0.057
TWP 5 RGE 3 W2	FROBISHER-ALIDA	5	0.040 - 0.060	0.048
	TILSTON	1	0.060	0.060
	BIRDBEAR	1	0.060	0.060
	STONY MOUNTAIN	1	0.060	0.060
TWP 6 RGE 3 W2	BLAIRMORE	2	0.354 - 0.550	0.452
	FROBISHER	2	0.052 - 0.066	0.059
	FROBISHER-ALIDA	5	0.049 - 0.060	0.055
	ALIDA	1	0.060	0.060
TWP 8 RGE 3 W2	LOWER WATROUS	1	0.048	0.048
	ALIDA	3	0.051 - 0.064	0.058
	ALIDA-TILSTON	1	0.062	0.062
TWP 9 RGE 3 W2	TILSTON	4	0.057 - 0.092	0.066
TWP 10 RGE 3 W2	TILSTON	3	0.070 - 0.116	0.090
TWP 11 RGE 3 W2	SOURIS VALLEY	1	0.160	0.160
TWP 17 RGE 3 W2	BLAIRMORE	1	0.297	0.297
TWP 18 RGE 3 W2	JURASSIC	3	0.214 - 0.332	0.282
TWP 19 RGE 3 W2	SOURIS VALLEY	1	0.136	0.136
	DUPEROW	1	0.085	0.085
TWP 22 RGE 3 W2	JURASSIC	1	0.240	0.240
	SOURIS VALLEY	1	0.150	0.150
	DUPEROW	1	0.068	0.068
	SOURIS RIVER	1	0.055	0.055
	DAWSON BAY	1	0.060	0.060
TWP 25 RGE 3 W2	BIRDBEAR	1	0.188	0.188
TWP 1 RGE 4 W2	BLAIRMORE	1	0.294	0.294
	MIDALE	3	0.042 - 0.045	0.043
	FROBISHER	5	0.040 - 0.070	0.051
	FROBISHER-ALIDA	1	0.052	0.052
TWP 2 RGE 4 W2	BLAIRMORE	2	0.390 - 0.570	0.480
	GRAVELBOURG	1	0.188	0.188
	POPLAR	1	0.070	0.070
	MIDALE	4	0.040 - 0.048	0.045
	FROBISHER	8	0.042 - 0.052	0.045
	FROBISHER-ALIDA	1	0.049	0.049
	BIRDBEAR	1	0.046	0.046
	DUPEROW	1	0.074	0.074
	WINNIPEGOSIS	1	0.046	0.046
	INTERLAKE	1	0.046	0.046
	STONY MOUNTAIN	1	0.048	0.048
	WINNIPEG	1	0.048	0.048
TWP 3 RGE 4 W2	VIKING	1	0.450	0.450
	BLAIRMORE	6	0.325 - 0.920	0.497
	JURASSIC	2	0.410 - 0.440	0.425
	MIDALE	45	0.041 - 0.082	0.050
	FROBISHER	5	0.048 - 0.050	0.049
	FROBISHER-ALIDA	3	0.048 - 0.060	0.053
	BIRDBEAR	1	0.061	0.061

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 3 RGE 4 W2	DUPEROW	2	0.049	0.049
	INTERLAKE	1	0.044	0.044
	RED RIVER	1	0.049	0.049
	DEADWOOD	2	0.046	0.046
TWP 4 RGE 4 W2	BLAIRMORE	2	0.321 - 0.380	0.351
	MIDALE	12	0.050 - 0.063	0.054
	FROBISHER	8	0.047 - 0.055	0.050
	FROBISHER-ALIDA	2	0.044 - 0.070	0.057
	BIRDBEAR	1	0.045	0.045
TWP 5 RGE 4 W2	MIDALE	12	0.046 - 0.086	0.062
	FROBISHER	2	0.056 - 0.063	0.060
	FROBISHER-ALIDA	1	0.046	0.046
TWP 6 RGE 4 W2	FROBISHER	3	0.052 - 0.058	0.055
	FROBISHER-ALIDA	3	0.053 - 0.061	0.057
TWP 7 RGE 4 W2	FROBISHER	2	0.052	0.052
	FROBISHER-ALIDA	4	0.044 - 0.073	0.054
	KISBEY	1	0.050	0.050
	ALIDA	1	0.052	0.052
TWP 8 RGE 4 W2	FROBISHER-ALIDA	1	0.052	0.052
	BIRDBEAR	1	0.056	0.056
TWP 9 RGE 4 W2	ALIDA	2	0.053 - 0.062	0.058
TWP 10 RGE 4 W2	ALIDA-TILSTON	1	0.063	0.063
	TILSTON	2	0.073 - 0.075	0.074
TWP 11 RGE 4 W2	TILSTON	8	0.093 - 0.148	0.125
TWP 12 RGE 4 W2	TILSTON	1	0.169	0.169
TWP 16 RGE 4 W2	JURASSIC	1	0.126	0.126
TWP 19 RGE 4 W2	SOURIS VALLEY	1	0.093	0.093
TWP 1 RGE 5 W2	MIDALE	5	0.043 - 0.054	0.048
	FROBISHER	1	0.041	0.041
	FROBISHER-ALIDA	3	0.047 - 0.056	0.051
TWP 2 RGE 5 W2	MIDALE	4	0.045 - 0.053	0.049
	FROBISHER	2	0.041 - 0.046	0.044
TWP 3 RGE 5 W2	BLAIRMORE	2	0.345 - 0.358	0.352
	MIDALE	28	0.045 - 0.054	0.049
	FROBISHER	9	0.043 - 0.068	0.053
TWP 4 RGE 5 W2	BLAIRMORE	9	0.323 - 0.519	0.390
	JURASSIC	1	0.390	0.390
	RATCLIFFE	1	0.078	0.078
	MIDALE	57	0.046 - 0.069	0.058
	FROBISHER	16	0.044 - 0.065	0.054
	FROBISHER-ALIDA	3	0.048 - 0.052	0.050
	ALIDA	1	0.055	0.055
	BIRDBEAR	1	0.045	0.045
	SOURIS RIVER	1	0.043	0.043
	WINNIPEGOSIS	1	0.044	0.044
TWP 5 RGE 5 W2	MIDALE	22	0.058 - 0.097	0.072
	FROBISHER	8	0.046 - 0.064	0.055
TWP 6 RGE 5 W2	FROBISHER	11	0.054 - 0.077	0.060
	FROBISHER-ALIDA	2	0.048 - 0.055	0.052
TWP 7 RGE 5 W2	FROBISHER	2	0.055 - 0.062	0.059
	FROBISHER-ALIDA	2	0.053 - 0.056	0.055
	ALIDA	3	0.071 - 0.088	0.078
	TILSTON	1	0.068	0.068
TWP 8 RGE 5 W2	BLAIRMORE	1	0.260	0.260
TWP 9 RGE 5 W2	ALIDA	2	0.057 - 0.075	0.066
TWP 10 RGE 5 W2	FROBISHER	1	0.066	0.066
	ALIDA	1	0.066	0.066
	BIRDBEAR	1	0.054	0.054
TWP 11 RGE 5 W2	TILSTON	4	0.120 - 0.207	0.142
TWP 12 RGE 5 W2	SOURIS VALLEY	1	0.158	0.158
TWP 24 RGE 5 W2	SOURIS VALLEY	1	0.139	0.139
TWP 26 RGE 5 W2	TORQUAY	1	0.150	0.150
TWP 27 RGE 5 W2	VIKING	1	0.910	0.910
TWP 1 RGE 6 W2	FROBISHER	1	0.047	0.047
TWP 2 RGE 6 W2	FROBISHER-ALIDA	1	0.080	0.080
	DUPEROW	2	0.054 - 0.136	0.095
TWP 3 RGE 6 W2	POPLAR	1	0.060	0.060
	MIDALE	1	0.060	0.060
	FROBISHER	1	0.060	0.060
TWP 4 RGE 6 W2	BLAIRMORE	3	0.251 - 0.266	0.256
	MIDALE	28	0.047 - 0.094	0.070
	FROBISHER	52	0.031 - 0.087	0.048
TWP 5 RGE 6 W2	VIKING	1	0.375	0.375
	BLAIRMORE	4	0.120 - 0.620	0.375
	JURASSIC	2	0.275 - 0.320	0.298
	RATCLIFFE	1	0.091	0.091
	MIDALE	16	0.054 - 0.094	0.074
	FROBISHER	6	0.048 - 0.070	0.060
	TILSTON	1	0.062	0.062
TWP 6 RGE 6 W2	MIDALE	1	0.062	0.062
	BIRDBEAR	2	0.054 - 0.056	0.055
	WINNIPEGOSIS	1	0.053	0.053
TWP 7 RGE 6 W2	FROBISHER	3	0.055 - 0.069	0.062
	ALIDA	1	0.057	0.057
	BIRDBEAR	3	0.047 - 0.058	0.051
TWP 9 RGE 6 W2	FROBISHER-ALIDA	6	0.046 - 0.060	0.055
	ALIDA	1	0.081	0.081
	BIRDBEAR	1	0.060	0.060
TWP 10 RGE 6 W2	TILSTON	1	0.172	0.172
TWP 11 RGE 6 W2	TILSTON	1	0.173	0.173
TWP 12 RGE 6 W2	TILSTON	4	0.110 - 0.194	0.141
TWP 16 RGE 6 W2	BLAIRMORE	2	0.197 - 0.300	0.249
TWP 19 RGE 6 W2	JURASSIC	1	0.180	0.180
TWP 22 RGE 6 W2	BLAIRMORE	1	0.121	0.121

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 23 RGE 6 W2	BLAIRMORE	1	0.117	0.117
TWP 28 RGE 6 W2	DUPEROW	1	0.150	0.150
TWP 1 RGE 7 W2	POPLAR	1	0.050	0.050
	MIDALE	1	0.050	0.050
TWP 3 RGE 7 W2	VIKING	1	0.272	0.272
	POPLAR	1	0.057	0.057
	MIDALE	1	0.050	0.050
	FROBISHER-ALIDA	1	0.056	0.056
	BIRDBEAR	1	0.046	0.046
TWP 4 RGE 7 W2	MIDALE	13	0.043 - 0.068	0.054
	FROBISHER	6	0.049 - 0.057	0.051
TWP 5 RGE 7 W2	FROBISHER	2	0.061	0.061
TWP 6 RGE 7 W2	FROBISHER	9	0.055 - 0.075	0.065
TWP 7 RGE 7 W2	FROBISHER	2	0.054 - 0.056	0.055
	FROBISHER-ALIDA	1	0.059	0.059
TWP 8 RGE 7 W2	FROBISHER	1	0.065	0.065
TWP 9 RGE 7 W2	BLAIRMORE	1	0.153	0.153
	FROBISHER-ALIDA	6	0.046 - 0.056	0.053
	ALIDA	4	0.087 - 0.116	0.098
TWP 10 RGE 7 W2	FROBISHER-ALIDA	5	0.100 - 0.120	0.108
	ALIDA	5	0.078 - 0.096	0.086
	TILSTON	5	0.095 - 0.153	0.112
	BIRDBEAR	1	0.078	0.078
TWP 11 RGE 7 W2	ALIDA	1	0.090	0.090
	TILSTON	3	0.112 - 0.128	0.118
TWP 13 RGE 7 W2	TILSTON	1	0.194	0.194
TWP 16 RGE 7 W2	JURASSIC	2	0.175 - 0.183	0.179
	SOURIS VALLEY	1	0.478	0.478
TWP 19 RGE 7 W2	VIKING	1	0.570	0.570
TWP 21 RGE 7 W2	JURASSIC	1	0.102	0.102
TWP 27 RGE 7 W2	DAWSON BAY	1	0.061	0.061
TWP 29 RGE 7 W2	VIKING	1	0.320	0.320
	INTERLAKE	1	0.056	0.056
TWP 1 RGE 8 W2	FROBISHER	1	0.052	0.052
TWP 2 RGE 8 W2	MIDALE	1	0.062	0.062
TWP 3 RGE 8 W2	POPLAR	1	0.060	0.060
	MIDALE	1	0.060	0.060
	DUPEROW	2	0.060	0.060
TWP 4 RGE 8 W2	MIDALE	4	0.051 - 0.082	0.064
	FROBISHER	3	0.061 - 0.085	0.072
TWP 5 RGE 8 W2	FROBISHER	2	0.055 - 0.073	0.064
TWP 6 RGE 8 W2	BLAIRMORE	1	0.320	0.320
	MIDALE	7	0.100 - 0.180	0.126
	FROBISHER	2	0.081 - 0.094	0.088
	FROBISHER-ALIDA	1	0.065	0.065
TWP 7 RGE 8 W2	FROBISHER	4	0.057 - 0.069	0.064
	FROBISHER-ALIDA	2	0.059 - 0.063	0.061
TWP 7 RGE 8 W2	BIRDBEAR	2	0.046 - 0.050	0.048
TWP 8 RGE 8 W2	FROBISHER	4	0.058 - 0.065	0.061
	FROBISHER-ALIDA	5	0.055 - 0.063	0.060
	ALIDA	1	0.072	0.072
	DUPEROW	1	0.049	0.049
	INTERLAKE	1	0.060	0.060
TWP 9 RGE 8 W2	FROBISHER-ALIDA	3	0.112 - 0.120	0.117
	ALIDA	1	0.145	0.145
TWP 10 RGE 8 W2	FROBISHER-ALIDA	8	0.103 - 0.151	0.116
	ALIDA	8	0.081 - 0.165	0.116
TWP 12 RGE 8 W2	TILSTON	1	0.215	0.215
	BIRDBEAR	1	0.140	0.140
	DUPEROW	1	0.157	0.157
	RED RIVER	1	0.043	0.043
TWP 14 RGE 8 W2	SOURIS VALLEY	1	0.230	0.230
	BIRDBEAR	1	0.120	0.120
	DUPEROW	1	0.070	0.070
TWP 16 RGE 8 W2	SOURIS VALLEY	1	0.350	0.350
TWP 2 RGE 9 W2	MIDALE-FROBISHER	1	0.050	0.050
	FROBISHER	1	0.049	0.049
TWP 4 RGE 9 W2	MIDALE	3	0.041 - 0.055	0.046
	FROBISHER-ALIDA	1	0.055	0.055
TWP 5 RGE 9 W2	FROBISHER	1	0.070	0.070
TWP 6 RGE 9 W2	BLAIRMORE	1	0.356	0.356
	MIDALE	24	0.063 - 0.185	0.109
	FROBISHER	4	0.058 - 0.064	0.061
	FROBISHER-ALIDA	2	0.062 - 0.070	0.066
TWP 7 RGE 9 W2	BLAIRMORE	1	0.347	0.347
	MIDALE	2	0.064 - 0.069	0.067
	FROBISHER-ALIDA	1	0.055	0.055
TWP 9 RGE 9 W2	SOURIS VALLEY	1	0.195	0.195
TWP 10 RGE 9 W2	FROBISHER-ALIDA	2	0.172 - 0.200	0.186
	DUPEROW	1	0.059	0.059
	WINNIPEGOSIS	1	0.050	0.050
	INTERLAKE	1	0.051	0.051
	RED RIVER	1	0.048	0.048
TWP 20 RGE 9 W2	VIKING	1	0.088	0.088
	JURASSIC	1	0.077	0.077
TWP 21 RGE 9 W2	JURASSIC	1	0.096	0.096
TWP 22 RGE 9 W2	JURASSIC	1	0.118	0.118
TWP 26 RGE 9 W2	VIKING	1	0.670	0.670
	SOURIS VALLEY	1	0.110	0.110
	BIRDBEAR	1	0.093	0.093
TWP 33 RGE 9 W2	DUPEROW	2	0.080 - 0.081	0.081
TWP 46 RGE 9 W2	DAWSON BAY	1	1.600	1.600
	DEADWOOD	1	0.080	0.080
TWP 2 RGE 10 W2	MIDALE-FROBISHER	1	0.050	0.050

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TWP 2 RGE 10 W2	FROBISHER	1	0.049	0.049
TWP 4 RGE 10 W2	FROBISHER	1	0.065	0.065
TWP 5 RGE 10 W2	BLAIRMORE	1	0.410	0.410
	FROBISHER	1	0.070	0.070
TWP 6 RGE 10 W2	BLAIRMORE	3	0.417 - 0.490	0.441
	MIDALE	92	0.058 - 0.093	0.074
	FROBISHER	10	0.056 - 0.087	0.072
	FROBISHER-ALIDA	1	0.064	0.064
	BIRDBEAR	1	0.051	0.051
	DUPEROW	1	0.049	0.049
	WINNIPEGOSIS	1	0.048	0.048
TWP 7 RGE 10 W2	MIDALE	8	0.064 - 0.118	0.097
	FROBISHER	17	0.057 - 0.079	0.067
	FROBISHER-ALIDA	1	0.058	0.058
TWP 8 RGE 10 W2	FROBISHER	4	0.070 - 0.181	0.122
	BIRDBEAR	1	0.056	0.056
TWP 9 RGE 10 W2	FROBISHER	1	0.412	0.412
TWP 10 RGE 10 W2	FROBISHER-ALIDA	1	0.157	0.157
	ALIDA	1	0.174	0.174
TWP 11 RGE 10 W2	ALIDA	1	0.214	0.214
TWP 14 RGE 10 W2	TILSTON	1	0.190	0.190
TWP 20 RGE 10 W2	JURASSIC	1	0.104	0.104
TWP 24 RGE 10 W2	BLAIRMORE	2	0.100 - 0.120	0.110
	BIRDBEAR	1	0.084	0.084
	SOURIS RIVER	1	0.049	0.049
TWP 34 RGE 10 W2	BLAIRMORE	1	0.182	0.182
	DUPEROW	2	0.158 - 0.168	0.163
	WINNIPEG	1	0.066	0.066
TWP 2 RGE 11 W2	MIDALE	1	0.060	0.060
TWP 3 RGE 11 W2	MIDALE	3	0.050 - 0.054	0.051
	MIDALE-FROBISHER	1	0.068	0.068
	FROBISHER	1	0.065	0.065
TWP 4 RGE 11 W2	MIDALE	1	0.080	0.080
	FROBISHER	1	0.050	0.050
	INTERLAKE	1	0.042	0.042
	ORDOVICIAN	1	0.043	0.043
TWP 5 RGE 11 W2	MIDALE	3	0.058 - 0.074	0.069
	FROBISHER	1	0.064	0.064
TWP 6 RGE 11 W2	BLAIRMORE	2	0.370 - 0.427	0.399
	MIDALE	78	0.051 - 0.094	0.070
	FROBISHER	18	0.030 - 0.078	0.057
TWP 7 RGE 11 W2	FROBISHER	13	0.065 - 0.161	0.100
	BAKKEN	3	0.044 - 0.057	0.050
TWP 8 RGE 11 W2	FROBISHER	12	0.088 - 0.300	0.187
	FROBISHER-ALIDA	2	0.148 - 0.150	0.149
TWP 9 RGE 11 W2	BIRDBEAR	1	0.112	0.112
TWP 10 RGE 11 W2	ALIDA	3	0.227 - 0.257	0.240
TWP 13 RGE 11 W2	BAKKEN	1	0.250	0.250
TWP 23 RGE 11 W2	JURASSIC	1	0.080	0.080
TWP 3 RGE 12 W2	MIDALE	2	0.058 - 0.069	0.064
	FROBISHER	1	0.059	0.059
TWP 4 RGE 12 W2	VIKING	1	0.820	0.820
	FROBISHER	1	0.062	0.062
TWP 5 RGE 12 W2	MIDALE	11	0.056 - 0.078	0.068
	FROBISHER	2	0.063 - 0.073	0.068
	FROBISHER-ALIDA	1	0.062	0.062
TWP 6 RGE 12 W2	MIDALE	28	0.060 - 0.100	0.074
	FROBISHER	1	0.054	0.054
TWP 7 RGE 12 W2	MIDALE	4	0.061 - 0.086	0.076
	FROBISHER	8	0.172 - 0.335	0.223
TWP 8 RGE 12 W2	FROBISHER	4	0.208 - 0.244	0.224
TWP 9 RGE 12 W2	FROBISHER	1	0.230	0.230
TWP 10 RGE 12 W2	FROBISHER	2	0.210 - 0.365	0.288
	ALIDA	1	0.233	0.233
TWP 11 RGE 12 W2	BLAIRMORE	1	0.770	0.770
	ALIDA	1	0.340	0.340
TWP 13 RGE 12 W2	TILSTON	2	0.270 - 0.312	0.291
TWP 14 RGE 12 W2	BIRDBEAR	1	0.205	0.205
TWP 20 RGE 12 W2	JURASSIC	1	0.082	0.082
TWP 21 RGE 12 W2	BLAIRMORE	1	0.084	0.084
TWP 24 RGE 12 W2	BIRDBEAR	1	0.130	0.130
TWP 30 RGE 12 W2	DAWSON BAY	1	0.049	0.049
TWP 32 RGE 12 W2	DAWSON BAY	1	0.082	0.082
	WINNIPEGOSIS	1	0.055	0.055
	INTERLAKE	1	0.063	0.063
TWP 1 RGE 13 W2	RATCLIFFE	1	0.067	0.067
TWP 2 RGE 13 W2	ALIDA	1	0.064	0.064
	DUPEROW	1	0.043	0.043
TWP 3 RGE 13 W2	MIDALE	5	0.054 - 0.068	0.059
	FROBISHER	2	0.060 - 0.066	0.063
	RED RIVER	1	0.044	0.044
TWP 5 RGE 13 W2	MIDALE	9	0.062 - 0.078	0.067
	MIDALE-FROBISHER	1	0.142	0.142
TWP 6 RGE 13 W2	BLAIRMORE	7	0.360 - 0.514	0.422
	MIDALE	32	0.057 - 0.159	0.095
	MIDALE-FROBISHER	7	0.070 - 0.144	0.107
	FROBISHER	7	0.063 - 0.251	0.140
	FROBISHER-ALIDA	2	0.066 - 0.250	0.158
TWP 7 RGE 13 W2	VIKING	1	0.850	0.850
	BLAIRMORE	1	0.880	0.880
	GRAVELBOURG	1	0.280	0.280
	MIDALE	13	0.095 - 0.180	0.131
	FROBISHER	2	0.200 - 0.210	0.205
	FROBISHER-ALIDA	3	0.230 - 0.390	0.290

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 9 RGE 13 W2	FROBISHER-ALI	1	0.218	0.218
	BIRDBEAR	1	0.116	0.116
TWP 10 RGE 13 W2	FROBISHER-ALIDA	1	0.205	0.205
TWP 13 RGE 13 W2	TILSTON	1	0.230	0.230
TWP 28 RGE 13 W2	BIRDBEAR	1	0.220	0.220
TWP 45 RGE 13 W2	DEADWOOD	1	0.066	0.066
TWP 52 RGE 13 W2	WINNIPEG	1	2.560	2.560
TWP 2 RGE 14 W2	VIKING	1	0.740	0.740
	BLAIRMORE	1	0.850	0.850
	RATCLIFFE	1	0.062 - 0.067	0.064
	RATCLIFFE-MIDALE	1	0.068	0.068
TWP 3 RGE 14 W2	VIKING	1	1.120	1.120
	RATCLIFFE-MIDALE	1	0.089	0.089
	FROBISHER-ALIDA	1	0.058	0.058
TWP 4 RGE 14 W2	BAKKEN	1	0.050	0.050
	WINNIPEGOSIS	1	0.053	0.053
TWP 5 RGE 14 W2	MIDALE	8	0.060 - 0.073	0.066
	FROBISHER	3	0.060 - 0.092	0.071
TWP 6 RGE 14 W2	MIDALE	39	0.064 - 0.272	0.143
	MIDALE-FROBISHER	3	0.157 - 0.220	0.183
	FROBISHER	3	0.220 - 0.286	0.249
	FROBISHER-ALIDA	2	0.273 - 0.300	0.287
TWP 7 RGE 14 W2	MIDALE	5	0.145 - 0.210	0.168
	WINNIPEGOSIS	1	0.047	0.047
TWP 9 RGE 14 W2	VIKING	1	0.810	0.810
TWP 10 RGE 14 W2	BIRDBEAR	1	0.105	0.105
	INTERLAKE	1	0.045	0.045
	WINNIPEG	1	0.042	0.042
TWP 11 RGE 14 W2	VIKING	1	0.830	0.830
	JURASSIC	1	0.600	0.600
	FROBISHER-ALIDA	1	0.260	0.260
	ALIDA	1	0.284	0.284
	BAKKEN	1	0.180	0.180
TWP 15 RGE 14 W2	BIRDBEAR	1	0.243	0.243
TWP 52 RGE 14 W2	WINNIPEG	1	1.340	1.340
	DEADWOOD	1	1.500	1.500
TWP 1 RGE 15 W2	VIKING	1	0.890	0.890
	BLAIRMORE	1	0.840	0.840
	POPLAR-RATCLIFFE	1	0.056	0.056
	RATCLIFFE	12	0.047 - 0.071	0.058
	MIDALE	2	0.057 - 0.075	0.066
	TILSTON	1	0.098	0.098
TWP 2 RGE 15 W2	RATCLIFFE	1	0.067	0.067
	MIDALE	1	0.060	0.060
TWP 3 RGE 15 W2	MIDALE	1	0.062	0.062
	FROBISHER-ALIDA	1	0.091	0.091
TWP 5 RGE 15 W2	MIDALE	3	0.265 - 0.270	0.267
TWP 5 RGE 15 W2	FROBISHER	1	0.277	0.277
TWP 6 RGE 15 W2	VIKING	1	1.100	1.100
	MIDALE	1	0.248	0.248
TWP 7 RGE 15 W2	MIDALE	4	0.212 - 0.290	0.256
	FROBISHER-ALIDA	1	0.380	0.380
	BIRDBEAR	1	0.087	0.087
	WINNIPEGOSIS	1	0.048	0.048
TWP 22 RGE 15 W2	RED RIVER	1	0.077	0.077
TWP 25 RGE 15 W2	BIRDBEAR	1	0.086	0.086
TWP 1 RGE 16 W2	VIKING	2	0.850 - 0.980	0.915
	BLAIRMORE	2	0.700 - 0.740	0.720
	RATCLIFFE	6	0.046 - 0.072	0.056
	FROBISHER-ALIDA	1	0.049	0.049
TWP 2 RGE 16 W2	RATCLIFFE	1	0.066	0.066
TWP 3 RGE 16 W2	RATCLIFFE	1	0.048	0.048
	MIDALE-FROBISHER	1	0.053	0.053
TWP 4 RGE 16 W2	POPLAR	1	0.600	0.600
	MIDALE	1	0.110	0.110
TWP 6 RGE 16 W2	MIDALE	2	0.266 - 0.290	0.278
	BIRDBEAR	1	0.049	0.049
TWP 7 RGE 16 W2	VIKING	1	0.780	0.780
	MIDALE	1	0.300	0.300
	FROBISHER	1	0.340	0.340
TWP 8 RGE 16 W2	MIDALE	4	0.135 - 0.305	0.244
	DUPEROW	1	0.053	0.053
TWP 9 RGE 16 W2	FROBISHER	1	0.230	0.230
	FROBISHER-ALIDA	1	0.240	0.240
	BIRDBEAR	1	0.064	0.064
TWP 14 RGE 16 W2	RED RIVER	1	0.056	0.056
TWP 19 RGE 16 W2	BIRDBEAR	1	0.110	0.110
TWP 21 RGE 16 W2	DUPEROW	1	0.060	0.060
	SOURIS RIVER	1	0.055	0.055
	WINNIPEGOSIS	1	0.069	0.069
	INTERLAKE	1	0.074	0.074
	RED RIVER	1	0.074	0.074
	WINNIPEG	1	0.079	0.079
TWP 23 RGE 16 W2	RED RIVER	1	0.067	0.067
	WINNIPEG	1	0.078	0.078
TWP 25 RGE 16 W2	BIRDBEAR	1	0.110	0.110
TWP 31 RGE 16 W2	THREE FORKS	1	0.127	0.127
TWP 1 RGE 17 W2	VIKING	1	0.680	0.680
	BLAIRMORE	1	0.845	0.845
	POPLAR	1	0.046	0.046
	RATCLIFFE	3	0.035 - 0.065	0.053
	RED RIVER	1	0.051	0.051
TWP 2 RGE 17 W2	BLAIRMORE	1	1.000	1.000
	RATCLIFFE	1	0.052	0.052

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 2 RGE 17 W2	MIDALE	1	0.093	0.093
	BIRDBEAR	1	0.072	0.072
TWP 3 RGE 17 W2	RATCLIFFE	1	0.085	0.085
TWP 4 RGE 17 W2	RATCLIFFE	2	0.063 - 0.086	0.075
	BIRDBEAR	1	0.051	0.051
	WINNIPEG	1	0.048	0.048
TWP 5 RGE 17 W2	VIKING	1	0.790	0.790
	LOWER SHAUNAVON	2	0.360	0.360
	MIDALE	2	0.410	0.410
	FROBISHER-ALIDA	2	0.180 - 0.380	0.280
	BIRDBEAR	1	0.080	0.080
TWP 13 RGE 17 W2	RIERDON	1	0.330	0.330
	MADISON (UNDIFF)	1	0.305	0.305
TWP 27 RGE 17 W2	DAWSON BAY	1	0.046	0.046
	WINNIPEGOSIS	1	0.048	0.048
TWP 35 RGE 17 W2	INTERLAKE	1	0.043	0.043
TWP 48 RGE 17 W2	DAWSON BAY	1	0.790	0.790
	WINNIPEGOSIS	1	1.470	1.470
	INTERLAKE	1	2.170	2.170
	DEADWOOD	1	2.430	2.430
TWP 1 RGE 18 W2	BIRDBEAR	1	0.057	0.057
TWP 2 RGE 18 W2	RED RIVER	1	0.050	0.050
TWP 4 RGE 18 W2	RATCLIFFE	1	0.116	0.116
TWP 5 RGE 18 W2	MIDALE	1	0.398	0.398
	BIRDBEAR	1	0.110	0.110
TWP 6 RGE 18 W2	RIERDON	1	0.104	0.104
	MIDALE	1	0.330	0.330
	BIRDBEAR	1	0.115	0.115
	RED RIVER	1	0.047	0.047
TWP 7 RGE 18 W2	MIDALE	1	0.460	0.460
	TILSTON	1	0.222	0.222
	BIRDBEAR	1	0.106	0.106
	DUPEROW	1	0.061	0.061
TWP 12 RGE 18 W2	VIKING	1	1.200	1.200
	GRAVELBOURG	1	0.900	0.900
	FROBISHER-ALIDA	1	0.500	0.500
TWP 16 RGE 18 W2	BLAIRMORE	1	0.453	0.453
TWP 28 RGE 18 W2	DAWSON BAY	1	0.056	0.056
TWP 46 RGE 18 W2	STONY MOUNTAIN	1	0.141	0.141
	WINNIPEG	1	0.104	0.104
TWP 50 RGE 18 W2	DAWSON BAY	2	3.200	3.200
	WINNIPEG	1	3.300	3.300
TWP 1 RGE 19 W2	BIRDBEAR	1	0.049	0.049
TWP 2 RGE 19 W2	BLAIRMORE	1	1.130	1.130
	POPLAR	3	0.050 - 0.086	0.071
	RATCLIFFE	3	0.069 - 0.100	0.082
	BIRDBEAR	8	0.037 - 0.068	0.051
TWP 2 RGE 19 W2	INTERLAKE	1	0.061	0.061
	STONY MOUNTAIN	1	0.130	0.130
	RED RIVER	2	0.052 - 0.060	0.056
	WINNIPEG	1	0.060	0.060
TWP 3 RGE 19 W2	RATCLIFFE	2	0.082 - 0.091	0.087
	BIRDBEAR	1	0.047	0.047
TWP 4 RGE 19 W2	BIRDBEAR	1	0.227	0.227
	RED RIVER	1	0.048	0.048
TWP 5 RGE 19 W2	RATCLIFFE	1	0.155	0.155
	RATCLIFFE-MIDALE	2	0.310 - 0.320	0.315
TWP 6 RGE 19 W2	RATCLIFFE-MIDALE	1	0.390	0.390
	MIDALE	6	0.265 - 0.383	0.330
	BAKKEN	1	0.067	0.067
	BIRDBEAR	1	0.072	0.072
TWP 8 RGE 19 W2	BIRDBEAR	1	0.059	0.059
TWP 10 RGE 19 W2	VIKING	1	1.050	1.050
	GRAVELBOURG	1	0.690	0.690
	RATCLIFFE	1	0.420	0.420
TWP 13 RGE 19 W2	WATROUS	1	0.340	0.340
	FROBISHER-ALIDA	1	0.380	0.380
	BIRDBEAR	1	0.120	0.120
TWP 42 RGE 19 W2	SOURIS RIVER	1	0.100	0.100
TWP 47 RGE 19 W2	WINNIPEGOSIS	1	1.180	1.180
TWP 1 RGE 20 W2	POPLAR	1	0.068	0.068
	RATCLIFFE	1	0.090	0.090
	BIRDBEAR	2	0.070 - 0.080	0.075
	INTERLAKE	1	0.055	0.055
	WINNIPEG	1	0.053	0.053
TWP 2 RGE 20 W2	RATCLIFFE	1	0.210	0.210
	FROBISHER-ALIDA	1	0.140	0.140
TWP 3 RGE 20 W2	MADISON (UNDIFF)	1	0.973	0.973
TWP 4 RGE 20 W2	MADISON (UNDIFF)	1	0.672	0.672
	FROBISHER-ALIDA	1	0.520	0.520
	DUPEROW	1	0.080	0.080
	WINNIPEGOSIS	1	0.048	0.048
	INTERLAKE	1	0.050	0.050
TWP 5 RGE 20 W2	VIKING	1	0.975	0.975
	BLAIRMORE	1	1.330	1.330
	MIDALE	1	0.810	0.810
	FROBISHER-ALIDA	1	0.640	0.640
TWP 6 RGE 20 W2	BIRDBEAR	1	0.620	0.620
TWP 8 RGE 20 W2	BIRDBEAR	1	0.082	0.082
	INTERLAKE	1	0.051	0.051
	RED RIVER	1	0.054	0.054
TWP 9 RGE 20 W2	BIRDBEAR	1	0.135	0.135
TWP 12 RGE 20 W2	BLAIRMORE	1	0.240	0.240
	BIRDBEAR	1	0.178	0.178

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 13 RGE 20 W2	FROBISHER-ALIDA	1	0.255	0.255
	BIRDBEAR	1	0.187	0.187
	RED RIVER	1	0.058	0.058
TWP 23 RGE 20 W2	INTERLAKE	1	0.066	0.066
	WINNIPEG	1	0.086	0.086
TWP 40 RGE 20 W2	WINNIPEGOSIS	1	0.093	0.093
TWP 41 RGE 20 W2	WINNIPEGOSIS	1	0.300	0.300
TWP 2 RGE 21 W2	MIDALE	1	0.210	0.210
TWP 3 RGE 21 W2	POPLAR	1	0.484	0.484
TWP 4 RGE 21 W2	POPLAR	1	0.950	0.950
	RATCLIFFE	1	0.650	0.650
	MIDALE	1	0.800	0.800
	BIRDBEAR	1	0.800	0.800
	YEOMAN	2	0.047 - 0.055	0.051
TWP 6 RGE 21 W2	RATCLIFFE	1	0.674	0.674
	MADISON (UNDIFF)	1	0.600	0.600
	BIRDBEAR	1	0.274	0.274
TWP 7 RGE 21 W2	RATCLIFFE	1	1.040	1.040
	MIDALE	1	0.750	0.750
	BIRDBEAR	1	0.560	0.560
	DUPEROW	1	0.120	0.120
	INTERLAKE	1	0.048	0.048
	RED RIVER	1	0.050	0.050
	WINNIPEG	1	0.048	0.048
TWP 8 RGE 21 W2	VIKING	1	0.960	0.960
	BLAIRMORE	1	1.010	1.010
	LOWER SHAUNAVON	1	0.690	0.690
	MADISON (UNDIFF)	1	0.950	0.950
	BIRDBEAR	1	0.530	0.530
	DUPEROW	1	0.310	0.310
	WINNIPEGOSIS	1	0.052	0.052
	INTERLAKE	1	0.048	0.048
	STONEWALL	1	0.074	0.074
	RED RIVER	2	0.046 - 0.047	0.047
TWP 10 RGE 21 W2	GRAVELBOURG	1	0.730	0.730
	BIRDBEAR	1	0.440	0.440
TWP 11 RGE 21 W2	BLAIRMORE	1	0.480	0.480
	INTERLAKE	1	0.060	0.060
TWP 12 RGE 21 W2	MADISON (UNDIFF)	1	0.225	0.225
	BIRDBEAR	1	0.060	0.060
	INTERLAKE	2	0.048 - 0.059	0.054
	WINNIPEG	1	0.053	0.053
TWP 14 RGE 21 W2	BIRDBEAR	1	0.124	0.124
	RED RIVER	1	0.050	0.050
	WINNIPEG	1	0.053	0.053
	DEADWOOD	1	0.049	0.049
TWP 26 RGE 21 W2	DUPEROW	1	0.079	0.079
TWP 29 RGE 21 W2	SOURIS RIVER	1	0.056	0.056
	INTERLAKE	1	0.063	0.063
	WINNIPEG	1	0.062	0.062
TWP 43 RGE 21 W2	STONEWALL-STONY MOUNTAIN	1	0.203	0.203
TWP 3 RGE 22 W2	VIKING	1	1.080	1.080
	MADISON (UNDIFF)	2	0.550 - 0.590	0.570
	POPLAR	1	1.620	1.620
	RATCLIFFE	2	0.485 - 0.900	0.693
	BIRDBEAR	1	0.160	0.160
TWP 4 RGE 22 W2	RATCLIFFE	1	0.720	0.720
	BIRDBEAR	1	0.190	0.190
TWP 6 RGE 22 W2	BIRDBEAR	1	0.156	0.156
	DUPEROW	1	0.150	0.150
TWP 8 RGE 22 W2	RED RIVER	1	0.050	0.050
TWP 9 RGE 22 W2	JURASSIC	1	0.730	0.730
	MADISON (UNDIFF)	1	1.120	1.120
	DUPEROW	1	0.175	0.175
	WINNIPEGOSIS	1	0.058	0.058
	INTERLAKE	1	0.066	0.066
TWP 17 RGE 22 W2	BLAIRMORE	1	0.295	0.295
	MADISON (UNDIFF)	1	0.247	0.247
	DEVONIAN	6	0.080 - 0.128	0.118
	BIRDBEAR	1	0.115	0.115
	INTERLAKE	1	0.083	0.083
TWP 28 RGE 22 W2	WINNIPEG	2	0.059 - 0.072	0.066
TWP 40 RGE 22 W2	BLAIRMORE	1	0.251	0.251
TWP 42 RGE 22 W2	ASHERN	1	0.071	0.071
TWP 47 RGE 22 W2	WINNIPEGOSIS	1	0.850	0.850
TWP 1 RGE 23 W2	BIRDBEAR	1	0.160	0.160
	DUPEROW	1	0.073	0.073
	INTERLAKE	1	0.071	0.071
	YEOMAN	1	0.061	0.061
TWP 2 RGE 23 W2	MADISON (UNDIFF)	1	0.900	0.900
	POPLAR	1	1.700	1.700
	BIRDBEAR	1	0.190	0.190
TWP 3 RGE 23 W2	BLAIRMORE	1	1.750	1.750
	MADISON (UNDIFF)	1	0.460	0.460
	POPLAR	1	1.140	1.140
	RATCLIFFE	1	0.680	0.680
TWP 5 RGE 23 W2	RATCLIFFE	1	0.139	0.139
	BIRDBEAR	1	0.198	0.198
	RED RIVER	1	0.064	0.064
	YEOMAN	1	0.048	0.048
	WINNIPEG	1	0.048	0.048
TWP 6 RGE 23 W2	BIRDBEAR	1	0.445	0.445
TWP 9 RGE 23 W2	GRAVELBOURG	1	1.040	1.040

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TWP 12 RGE 23 W2	DUPEROW	1	0.340	0.340
TWP 14 RGE 23 W2	BIRDBEAR	1	0.153	0.153
	DUPEROW	3	0.144 - 0.158	0.149
	PRAIRIE EVAPORITE	1	0.156	0.156
	ASHERN	1	0.137	0.137
	INTERLAKE	1	0.151	0.151
	WINNIPEG	1	0.074	0.074
TWP 18 RGE 23 W2	BIRDBEAR	1	0.260	0.260
	DUPEROW	2	0.245 - 0.274	0.260
	SOURIS RIVER	1	0.250	0.250
	DAWSON BAY	2	0.038 - 0.039	0.039
	MIDDLE INTERLAKE	1	0.062	0.062
	LOWER INTERLAKE	1	0.049	0.049
TWP 36 RGE 23 W2	WINNIPEGOSIS	1	0.058	0.058
TWP 50 RGE 23 W2	WINNIPEGOSIS	1	1.350	1.350
	WINNIPEG	1	0.420	0.420
TWP 3 RGE 24 W2	MADISON (UNDIFF)	1	0.180	0.180
	DUPEROW	1	0.072	0.072
	WINNIPEGOSIS	1	0.064	0.064
	INTERLAKE	1	0.052	0.052
	STONEWALL	1	0.055	0.055
	RED RIVER	2	0.050 - 0.052	0.051
	WINNIPEG	1	0.050	0.050
TWP 6 RGE 24 W2	MADISON (UNDIFF)	1	1.600	1.600
TWP 7 RGE 24 W2	RATCLIFFE	1	0.930	0.930
TWP 10 RGE 24 W2	DUPEROW	1	0.360	0.360
TWP 12 RGE 24 W2	LOWER SHAUNAVON-GRAVELBOURG	1	1.860	1.860
	MADISON (UNDIFF)	1	2.050	2.050
	BIRDBEAR	1	1.170	1.170
	DUPEROW	1	0.780	0.780
TWP 14 RGE 24 W2	BLAIRMORE	1	0.760	0.760
	DUPEROW	1	0.170	0.170
	DAWSON BAY	1	0.150	0.150
	WINNIPEGOSIS	1	0.150	0.150
	INTERLAKE	4	0.085 - 0.131	0.109
TWP 16 RGE 24 W2	MADISON (UNDIFF)	1	0.920	0.920
TWP 18 RGE 24 W2	BIRDBEAR	1	0.044	0.044
	WINNIPEGOSIS	1	0.043	0.043
TWP 61 RGE 24 W2	WINNIPEG	1	6.290	6.290
TWP 1 RGE 25 W2	POPLAR	1	0.083	0.083
	BIRDBEAR	1	0.170	0.170
TWP 3 RGE 25 W2	MADISON (UNDIFF)	2	0.290 - 0.380	0.335
	BAKKEN	1	0.051	0.051
	BIRDBEAR	1	0.472	0.472
	DUPEROW	2	0.107 - 0.115	0.111
TWP 3 RGE 25 W2	INTERLAKE	1	0.062	0.062
TWP 5 RGE 25 W2	GRAVELBOURG	1	0.640	0.640
	MADISON (UNDIFF)	1	0.860	0.860
	BAKKEN	3	0.053 - 0.070	0.062
	BIRDBEAR	1	0.200	0.200
TWP 6 RGE 25 W2	RATCLIFFE	1	1.040	1.040
TWP 10 RGE 25 W2	MADISON (UNDIFF)	4	1.820 - 2.330	2.038
	BIRDBEAR	1	1.500	1.500
	DUPEROW	1	1.330	1.330
TWP 15 RGE 25 W2	DUPEROW	1	0.315	0.315
TWP 20 RGE 25 W2	BIRDBEAR	1	0.650	0.650
	DUPEROW	1	0.033	0.033
TWP 24 RGE 25 W2	UPPER SHAUNAVON	1	0.083	0.083
	BIRDBEAR	1	0.078	0.078
	DUPEROW	1	0.136	0.136
TWP 27 RGE 25 W2	BLAIRMORE	1	0.142	0.142
	WINNIPEGOSIS	1	0.048	0.048
	INTERLAKE	2	0.065	0.065
	WINNIPEG	1	0.064	0.064
TWP 33 RGE 25 W2	JURASSIC	1	0.056	0.056
TWP 36 RGE 25 W2	INTERLAKE	1	0.058	0.058
TWP 50 RGE 25 W2	WINNIPEGOSIS	1	1.300	1.300
TWP 55 RGE 25 W2	WINNIPEGOSIS	5	2.171 - 2.447	2.303
	INTERLAKE	1	1.020	1.020
	WINNIPEG	1	0.845	0.845
TWP 4 RGE 26 W2	RATCLIFFE	2	1.960 - 2.320	2.140
	BAKKEN	1	0.870	0.870
TWP 7 RGE 26 W2	MADISON (UNDIFF)	2	1.980 - 2.420	2.200
	BIRDBEAR	1	0.680	0.680
TWP 8 RGE 26 W2	MADISON (UNDIFF)	1	2.400	2.400
	BIRDBEAR	1	2.500	2.500
TWP 10 RGE 26 W2	MADISON (UNDIFF)	1	2.370	2.370
	SOURIS VALLEY	1	1.990	1.990
	BIRDBEAR	1	1.970	1.970
	DUPEROW	1	6.030	6.030
	WINNIPEGOSIS	1	0.410	0.410
	INTERLAKE	1	0.180	0.180
	RED RIVER	1	0.070	0.070
	WINNIPEG	1	0.065	0.065
	DEADWOOD	1	0.066	0.066
TWP 12 RGE 26 W2	BIRDBEAR	1	1.150	1.150
	SOURIS RIVER	1	0.262	0.262
	RED RIVER	1	0.073	0.073
	WINNIPEG	1	0.053	0.053
TWP 15 RGE 26 W2	STONEWALL	1	0.054	0.054
TWP 1 RGE 27 W2	WIDALE	1	1.350	1.350
	BIRDBEAR	1	0.650	0.650

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 1 RGE 27 W2	DAWSON BAY	1	0.112	0.112
	INTERLAKE	2	0.089 - 0.100	0.095
	RED RIVER	1	0.121	0.121
	WINNIPEG	1	0.083	0.083
TWP 5 RGE 27 W2	RATCLIFFE	1	2.300	2.300
	BAKKEN	1	0.400	0.400
TWP 7 RGE 27 W2	WINNIPEGOSIS	1	0.256	0.256
	RED RIVER	1	0.252	0.252
TWP 12 RGE 27 W2	BIRDBEAR-DUPEROW	1	3.000	3.000
	STONEWALL	1	0.475	0.475
	WINNIPEG	1	0.058	0.058
TWP 19 RGE 27 W2	DAWSON BAY	1	0.048	0.048
	WINNIPEG	1	0.046	0.046
TWP 20 RGE 27 W2	WINNIPEG	1	0.060	0.060
TWP 39 RGE 27 W2	WINNIPEGOSIS	1	0.067	0.067
TWP 56 RGE 27 W2	WINNIPEG	1	1.095	1.095
TWP 1 RGE 28 W2	POPLAR	1	2.310	2.310
	RATCLIFFE	1	2.010	2.010
	SOURIS VALLEY	1	1.510	1.510
	BIRDBEAR	1	0.740	0.740
TWP 3 RGE 28 W2	MIDALE	1	1.420	1.420
	BIRDBEAR	1	0.660	0.660
	DUPEROW	2	0.470 - 2.350	1.410
	INTERLAKE	1	0.130	0.130
	YEOMAN	1	0.145	0.145
TWP 4 RGE 28 W2	RATCLIFFE	1	3.000	3.000
	BIRDBEAR	1	3.530	3.530
TWP 5 RGE 28 W2	MADISON (UNDIFF)	2	2.550 - 2.950	2.750
	DUPEROW	2	1.800 - 2.950	2.375
TWP 8 RGE 28 W2	COLORADO	1	1.410	1.410
	GRAVELBOURG	1	1.080	1.080
	MADISON (UNDIFF)	1	2.080	2.080
TWP 14 RGE 28 W2	MADISON (UNDIFF)	1	2.150	2.150
TWP 26 RGE 28 W2	BIRDBEAR	1	0.300	0.300
	DUPEROW	1	0.158	0.158
TWP 27 RGE 28 W2	BLAIRMORE	1	0.177	0.177
	WINNIPEGOSIS	1	0.053	0.053
	INTERLAKE	1	0.052	0.052
	YEOMAN-WINNIPEG	1	0.050	0.050
TWP 32 RGE 28 W2	BLAIRMORE	2	0.250 - 0.305	0.278
TWP 38 RGE 28 W2	BLAIRMORE	1	0.132	0.132
	WINNIPEGOSIS	1	0.051	0.051
TWP 2 RGE 29 W2	MADISON (UNDIFF)	2	2.590 - 2.730	2.660
	DUPEROW	2	1.600 - 2.880	2.240
	SOURIS RIVER	2	1.320 - 1.350	1.335
	ASHERN	1	0.640	0.640
	INTERLAKE	2	0.740 - 2.900	1.820
TWP 7 RGE 29 W2	BLAIRMORE	1	2.150	2.150
	RATCLIFFE	1	2.050	2.050
TWP 11 RGE 29 W2	BELLY RIVER	1	1.330	1.330
	BLAIRMORE	2	0.880 - 1.610	1.245
	MADISON (UNDIFF)	1	2.760	2.760
TWP 12 RGE 29 W2	BLAIRMORE	1	0.910	0.910
	VANGUARD	1	0.580	0.580
TWP 17 RGE 29 W2	INTERLAKE	1	0.160	0.160
TWP 32 RGE 29 W2	BLAIRMORE	1	0.215	0.215
	THREE FORKS	1	0.123	0.123
TWP 5 RGE 30 W2	INTERLAKE	1	1.200	1.200
TWP 2 RGE 1 W3	ROSERAY	1	2.140	2.140
	MADISON (UNDIFF)	1	3.740	3.740
TWP 9 RGE 1 W3	BLAIRMORE	1	2.120	2.120
	ROSERAY	1	1.430	1.430
	MADISON (UNDIFF)	1	2.130	2.130
	BIRDBEAR	1	1.380	1.380
TWP 11 RGE 1 W3	BLAIRMORE	1	1.280	1.280
	ROSERAY	1	1.180	1.180
TWP 17 RGE 1 W3	ROSERAY	1	0.500	0.500
TWP 19 RGE 1 W3	WINNIPEGOSIS	1	0.280	0.280
	DEADWOOD	1	0.069	0.069
TWP 20 RGE 1 W3	ROSERAY	1	0.525	0.525
TWP 23 RGE 1 W3	WINNIPEGOSIS	1	0.070	0.070
	WINNIPEG	1	0.086	0.086
TWP 25 RGE 1 W3	DUPEROW	1	0.340	0.340
TWP 33 RGE 1 W3	ASHERN	1	0.056	0.056
	DEADWOOD	1	0.062	0.062
TWP 34 RGE 1 W3	INTERLAKE	1	0.079	0.079
TWP 37 RGE 1 W3	WINNIPEGOSIS	1	0.053	0.053
	INTERLAKE	1	0.049	0.049
	WINNIPEG	1	0.047	0.047
TWP 38 RGE 1 W3	WINNIPEGOSIS-ASHERN-WINNIPEG	1	0.065	0.065
	INTERLAKE	1	0.055	0.055
TWP 46 RGE 1 W3	STONEWALL-STONY MOUNTAIN	1	0.220	0.220
TWP 5 RGE 2 W3	ROSERAY	1	2.390	2.390
	MADISON (UNDIFF)	2	2.900 - 3.000	2.950
	DUPEROW	1	3.300	3.300
TWP 21 RGE 2 W3	ROSERAY	1	0.930	0.930
	GRAVELBOURG	1	0.530	0.530
	DAWSON BAY	1	0.340	0.340
	INTERLAKE	1	0.073	0.073
TWP 51 RGE 2 W3	DAWSON BAY	1	0.930	0.930
	WINNIPEGOSIS	1	0.730	0.730
	INTERLAKE	1	0.590	0.590

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 51 RGE 2 W3	RED RIVER	1	0.300	0.300
TWP 52 RGE 2 W3	DAWSON BAY	1	0.860	0.860
	WINNIPEGOSIS	1	1.240	1.240
	INTERLAKE	1	1.260	1.260
	WINNIPEG	1	0.390	0.390
TWP 64 RGE 2 W3	SOURIS RIVER	1	9.270	9.270
	DEADWOOD	1	1.780	1.780
TWP 2 RGE 3 W3	RATCLIFFE-MIDALE	1	2.230	2.230
	BIRDBEAR	1	2.200	2.200
	DUPEROW	1	3.110	3.110
	WINNIPEGOSIS-INTERLAKE	1	2.210	2.210
	INTERLAKE	1	1.800	1.800
	STONEWALL-STONY MOUNTAIN	1	2.000	2.000
	STONY MOUNTAIN	1	2.090	2.090
	WINNIPEG	1	2.290	2.290
TWP 3 RGE 3 W3	MADISON (UNDIFF)	2	2.450 - 2.600	2.525
	DAWSON BAY	1	2.040	2.040
TWP 4 RGE 3 W3	BLAIRMORE	1	2.490	2.490
	DUPEROW	1	3.240	3.240
TWP 8 RGE 3 W3	UPPER VANGUARD	1	2.310	2.310
	MADISON (UNDIFF)	1	3.020	3.020
	BIRDBEAR	1	2.710	2.710
TWP 13 RGE 3 W3	BLAIRMORE	1	1.500	1.500
	ROSERAY	1	1.300	1.300
	MADISON (UNDIFF)	1	1.140	1.140
TWP 15 RGE 3 W3	MADISON (UNDIFF)	1	3.170	3.170
TWP 17 RGE 3 W3	MADISON (UNDIFF)	1	1.940	1.940
TWP 20 RGE 3 W3	BIRDBEAR	1	1.130	1.130
TWP 21 RGE 3 W3	BLAIRMORE	1	1.000	1.000
	ROSERAY	1	1.150	1.150
TWP 34 RGE 3 W3	PRAIRIE EVAPORITE-WINNIPEGOSIS	1	0.077	0.077
	INTERLAKE	1	0.063	0.063
TWP 6 RGE 4 W3	BIRDBEAR	1	1.560	1.560
	DUPEROW	1	1.650	1.650
	SOURIS RIVER	1	0.300	0.300
	INTERLAKE	1	2.750	2.750
	WINNIPEG	1	2.140	2.140
TWP 8 RGE 4 W3	SOURIS RIVER	2	0.860 - 1.350	1.105
TWP 9 RGE 4 W3	MADISON (UNDIFF)	1	2.200	2.200
	BIRDBEAR	2	2.220 - 2.350	2.285
	DUPEROW	2	1.050 - 1.720	1.385
	WINNIPEG	1	2.450	2.450
TWP 10 RGE 4 W3	ROSERAY	1	1.490	1.490
TWP 10 RGE 4 W3	MADISON (UNDIFF)	1	2.200	2.200
	BIRDBEAR	1	2.700	2.700
	DUPEROW	1	2.710	2.710
	INTERLAKE	1	2.910	2.910
	RED RIVER	1	1.740	1.740
	WINNIPEG	1	3.020	3.020
TWP 17 RGE 4 W3	BLAIRMORE	1	1.300	1.300
	MADISON (UNDIFF)	1	2.000	2.000
TWP 26 RGE 4 W3	LOWER SHAUNAVON	1	0.650	0.650
	GRAVELBOURG	1	0.650	0.650
	MADISON (UNDIFF)	1	0.390	0.390
	BIRDBEAR	1	0.460	0.460
	DUPEROW	3	0.248 - 0.390	0.299
	SOURIS RIVER	1	0.154	0.154
	DAWSON BAY	1	0.106	0.106
	WINNIPEGOSIS	1	0.083	0.083
	INTERLAKE	1	0.101	0.101
TWP 39 RGE 4 W3	DAWSON BAY	1	0.053	0.053
	ASHERN	1	0.055	0.055
TWP 47 RGE 4 W3	STONEWALL-STONY MOUNTAIN	1	0.147	0.147
TWP 26 RGE 5 W3	SOURIS VALLEY	1	0.450	0.450
	BIRDBEAR	1	0.720	0.720
	DUPEROW	1	0.372	0.372
	DAWSON BAY	1	0.120	0.120
TWP 29 RGE 5 W3	DUPEROW	2	0.320	0.320
	WINNIPEGOSIS	1	0.102	0.102
	STONEWALL-STONY MOUNTAIN	1	0.085	0.085
TWP 48 RGE 5 W3	SOURIS RIVER	1	0.224	0.224
TWP 63 RGE 5 W3	SOURIS RIVER	1	10.000	10.000
	DAWSON BAY	1	7.550	7.550
TWP 1 RGE 6 W3	BLAIRMORE	1	3.260	3.260
TWP 3 RGE 6 W3	MADISON (UNDIFF)	1	2.820	2.820
	BIRDBEAR	1	2.800	2.800
	WINNIPEGOSIS	1	2.700	2.700
	INTERLAKE	1	2.900	2.900
TWP 9 RGE 6 W3	BLAIRMORE	2	2.170 - 2.400	2.285
TWP 10 RGE 6 W3	MADISON (UNDIFF)	1	2.520	2.520
TWP 15 RGE 6 W3	SOURIS RIVER	1	1.520	1.520
	WINNIPEGOSIS	1	0.410	0.410
	INTERLAKE	1	0.960	0.960
	RED RIVER	1	0.112	0.112
	DEADWOOD	2	0.063 - 0.108	0.088
TWP 16 RGE 6 W3	ROSERAY	1	0.117	0.117
TWP 19 RGE 6 W3	BELLY RIVER	3	0.755 - 0.975	0.895
	BLAIRMORE	1	3.800	3.800

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 19 RGE 6 W3	ROSERAY	1	1,780	1,780
	LOWER SHAUNAVON	1	1,400	1,400
TWP 20 RGE 6 W3	BLAIRMORE	2	1,162 - 1,218	1,190
TWP 23 RGE 6 W3	BIRDBEAR	1	1,380	1,380
	DUPEROW	2	0,140 - 0,330	0,235
	INTERLAKE	1	2,700	2,700
TWP 37 RGE 6 W3	WINNIPEGOSIS	1	0,055	0,055
	INTERLAKE	1	0,066	0,066
TWP 2 RGE 7 W3	MADISON (UNDIFF)	1	1,800	1,800
TWP 9 RGE 7 W3	ROSERAY	1	1,900	1,900
TWP 16 RGE 7 W3	CANTUAR	1	1,260	1,260
	MADISON (UNDIFF)	1	1,580	1,580
	BIRDBEAR	1	1,240	1,240
TWP 19 RGE 7 W3	BLAIRMORE	1	3,220	3,220
TWP 30 RGE 7 W3	BLAIRMORE	1	1,110	1,110
	INTERLAKE	1	0,054	0,054
TWP 34 RGE 7 W3	WINNIPEGOSIS	1	0,075	0,075
TWP 35 RGE 7 W3	DUPEROW	2	0,133 - 0,205	0,169
TWP 5 RGE 8 W3	ASHERN-INTERLAKE	1	3,080	3,080
	WINNIPEG	1	2,870	2,870
	DEADWOOD	1	0,084	0,084
TWP 6 RGE 8 W3	BLAIRMORE	1	1,850	1,850
	CANTUAR	1	2,000	2,000
	MADISON (UNDIFF)	1	2,570	2,570
TWP 7 RGE 8 W3	BLAIRMORE	1	1,680	1,680
	GRAVELBOURG	1	0,970	0,970
TWP 8 RGE 8 W3	LOWER COLORADO	1	1,680	1,680
	VIKING	1	0,720	0,720
	ROSERAY	1	1,540	1,540
TWP 10 RGE 8 W3	ROSERAY	1	1,540	1,540
	BIRDBEAR	1	2,450	2,450
TWP 11 RGE 8 W3	GRAVELBOURG	1	1,410	1,410
TWP 14 RGE 8 W3	ROSERAY	1	0,120	0,120
TWP 17 RGE 8 W3	BLAIRMORE	1	1,620	1,620
	SOURIS RIVER	2	0,579 - 1,280	0,930
TWP 19 RGE 8 W3	BASAL BLAIRMORE	1	1,430	1,430
TWP 31 RGE 8 W3	BIRDBEAR	1	0,200	0,200
	DUPEROW	1	0,236	0,236
	STONEWALL	1	0,068	0,068
	RED RIVER	1	0,048	0,048
TWP 32 RGE 8 W3	BIRDBEAR	1	0,150	0,150
	INTERLAKE	1	0,071	0,071
TWP 35 RGE 8 W3	STONY MOUNTAIN	1	0,056	0,056
	DEADWOOD	4	0,045 - 0,050	0,048
TWP 63 RGE 8 W3	BLAIRMORE	1	8,600	8,600
	DEADWOOD	1	2,080	2,080
TWP 1 RGE 9 W3	BASAL CANTUAR	1	1,700	1,700
TWP 1 RGE 9 W3	UPPER ROSERAY	1	1,580	1,580
	ROSERAY	2	2,390 - 2,800	2,595
TWP 3 RGE 9 W3	BLAIRMORE	1	1,480	1,480
	MADISON (UNDIFF)	1	3,360	3,360
TWP 4 RGE 9 W3	BLAIRMORE	1	1,850	1,850
	MADISON (UNDIFF)	2	2,520 - 2,740	2,630
TWP 6 RGE 9 W3	MADISON (UNDIFF)	1	2,390	2,390
	DUPEROW	1	1,600	1,600
TWP 7 RGE 9 W3	VIKING	1	0,937	0,937
	BLAIRMORE	1	1,485	1,485
	ROSERAY	1	1,370	1,370
	GRAVELBOURG	1	0,242	0,242
	MADISON (UNDIFF)	1	2,376	2,376
TWP 8 RGE 9 W3	LOWER SHAUNAVON	1	1,500	1,500
TWP 15 RGE 9 W3	CANTUAR	1	1,520	1,520
TWP 4 RGE 10 W3	UPPER GRAVELBOURG	1	1,600	1,600
TWP 9 RGE 10 W3	BLAIRMORE	1	1,700	1,700
	CANTUAR	1	1,500	1,500
	ROSERAY	1	1,400	1,400
	GRAVELBOURG	1	1,200	1,200
TWP 14 RGE 10 W3	BLAIRMORE	1	2,070	2,070
	DUPEROW	1	2,300	2,300
	DEADWOOD	1	1,350	1,350
TWP 15 RGE 10 W3	CANTUAR	1	1,580	1,580
TWP 19 RGE 10 W3	CANTUAR	1	1,460	1,460
TWP 20 RGE 10 W3	GRAVELBOURG	1	1,620	1,620
	BIRDBEAR	1	0,930	0,930
TWP 22 RGE 10 W3	BLAIRMORE	1	1,150	1,150
	GRAVELBOURG	1	1,180	1,180
	BIRDBEAR	1	1,430	1,430
TWP 24 RGE 10 W3	SOURIS VALLEY	1	0,450	0,450
	DUPEROW	2	0,450 - 0,750	0,600
	DAWSON BAY	1	0,122	0,122
	PRAIRIE EVAPORITE-WINNIPEGOSIS	1	0,094	0,094
	INTERLAKE	2	0,080 - 0,085	0,083
	STONEWALL	1	0,080	0,080
	RED RIVER	1	0,055	0,055
TWP 27 RGE 10 W3	BLAIRMORE	2	1,240 - 1,280	1,260
	BAKKEN	1	0,970	0,970
	BIRDBEAR	1	0,277	0,277
TWP 60 RGE 10 W3	DEVONIAN	1	7,480	7,480
	WINNIPEGOSIS	1	5,900	5,900
TWP 2 RGE 11 W3	BIRDBEAR	1	2,720	2,720
	SOURIS RIVER	1	3,340	3,340

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 7 RGE 11 W3	MADISON (UNDIFF)	1	4.100	4.100
TWP 12 RGE 11 W3	VIKING	1	0.620	0.620
TWP 16 RGE 11 W3	CANTUAR	1	1.580	1.580
TWP 18 RGE 11 W3	CANTUAR	3	1.740 - 2.160	1.890
TWP 19 RGE 11 W3	BASAL BLAIRMORE	1	1.320	1.320
	MADISON (UNDIFF)	1	1.450	1.450
TWP 21 RGE 11 W3	DUPEROW	1	0.136	0.136
	WINNIPEGOSIS	1	0.062	0.062
TWP 23 RGE 11 W3	DUPEROW	1	0.970	0.970
	DAWSON BAY	1	0.064	0.064
	INTERLAKE	1	0.067	0.067
TWP 27 RGE 11 W3	DUPEROW	2	0.132 - 0.140	0.136
	SOURIS RIVER	1	0.110	0.110
	INTERLAKE	1	0.089	0.089
TWP 29 RGE 11 W3	BLAIRMORE	1	1.480	1.480
TWP 30 RGE 11 W3	BLAIRMORE	1	0.830	0.830
TWP 60 RGE 11 W3	DAWSON BAY	1	0.330	0.330
	WINNIPEGOSIS	1	2.240	2.240
TWP 1 RGE 12 W3	WINNIPEGOSIS-			
	ASHERN-INTERLAKE	1	3.080	3.080
TWP 5 RGE 12 W3	BLAIRMORE	1	1.750	1.750
	ROSERAY	1	2.150	2.150
TWP 13 RGE 12 W3	MADISON (UNDIFF)	1	2.250	2.250
	BIRDBEAR	1	0.690	0.690
	DUPEROW	1	1.080	1.080
	SOURIS RIVER-			
	DAWSON BAY-			
	WINNIPEGOSIS	1	2.170	2.170
TWP 16 RGE 12 W3	CANTUAR	2	1.950 - 2.050	2.000
TWP 18 RGE 12 W3	CANTUAR	1	1.200	1.200
	ROSERAY	1	1.500	1.500
TWP 30 RGE 12 W3	BLAIRMORE	1	0.930	0.930
	BIRDBEAR	1	0.950	0.950
TWP 37 RGE 12 W3	BLAIRMORE	1	0.105	0.105
TWP 58 RGE 12 W3	SOURIS RIVER	1	0.203	0.203
TWP 60 RGE 12 W3	SOURIS RIVER	1	1.270	1.270
	WINNIPEGOSIS	1	1.880	1.880
TWP 1 RGE 13 W3	MADISON (UNDIFF)	1	1.540	1.540
	BIRDBEAR	1	2.370	2.370
	INTERLAKE	1	3.510	3.510
TWP 2 RGE 13 W3	VIKING	1	1.750	1.750
	BLAIRMORE	1	2.850	2.850
TWP 11 RGE 13 W3	CANTUAR	1	1.100	1.100
TWP 13 RGE 13 W3	ROSERAY	1	0.845	0.845
TWP 14 RGE 13 W3	ROSERAY	1	1.170	1.170
TWP 15 RGE 13 W3	CANTUAR	1	1.020	1.020
TWP 17 RGE 13 W3	BLAIRMORE	1	1.710	1.710
TWP 17 RGE 13 W3	CANTUAR	1	1.350	1.350
	ROSERAY	1	1.440	1.440
TWP 18 RGE 13 W3	CANTUAR	1	1.230	1.230
TWP 19 RGE 13 W3	VIKING	1	0.635	0.635
	BLAIRMORE	2	1.450 - 1.580	1.515
	CANTUAR	1	1.100	1.100
TWP 25 RGE 13 W3	VIKING	1	0.850	0.850
	BLAIRMORE	1	1.500	1.500
TWP 27 RGE 13 W3	BLAIRMORE	3	0.300 - 1.850	1.177
	WINNIPEGOSIS	1	0.059	0.059
TWP 29 RGE 13 W3	RAKKEN	1	0.970	0.970
TWP 30 RGE 13 W3	BLAIRMORE	1	0.111	0.111
TWP 46 RGE 13 W3	VIKING	1	0.150	0.150
	DUPEROW-			
	SOURIS RIVER	1	0.108	0.108
	SOURIS RIVER	1	0.098	0.098
	DAWSON BAY	1	0.060	0.060
TWP 47 RGE 13 W3	DAWSON BAY	1	0.074	0.074
TWP 66 RGE 13 W3	WINNIPEGOSIS	1	0.104	0.104
	DEADWOOD	1	0.335	0.335
TWP 1 RGE 14 W3	BLAIRMORE	1	1.100	1.100
	MADISON (UNDIFF)	1	2.780	2.780
TWP 4 RGE 14 W3	BASAL BLAIRMORE	1	1.260	1.260
	ROSERAY	2	1.200	1.200
TWP 5 RGE 14 W3	ROSERAY	1	2.340	2.340
TWP 11 RGE 14 W3	CANTUAR	2	0.826 - 0.910	0.868
	ROSERAY	1	1.320	1.320
TWP 13 RGE 14 W3	CANTUAR	1	0.900	0.900
TWP 14 RGE 14 W3	CANTUAR	1	0.960	0.960
	ROSERAY	1	0.950	0.950
TWP 17 RGE 14 W3	CANTUAR	2	1.390 - 1.400	1.395
	ROSERAY	3	1.240 - 1.880	1.490
	BIRDBEAR	1	0.430	0.430
	DUPEROW	3	0.380 - 0.440	0.418
	SOURIS RIVER	3	0.099 - 0.223	0.174
	INTERLAKE	2	0.084 - 0.170	0.127
	DEADWOOD	3	0.110 - 0.143	0.124
TWP 18 RGE 14 W3	ROSERAY	2	1.280 - 1.570	1.425
TWP 19 RGE 14 W3	VIKING	1	0.570	0.570
	SPINNEY HILL	1	1.350	1.350
	BLAIRMORE	1	1.400	1.400
	CANTUAR	1	1.060	1.060
TWP 20 RGE 14 W3	VIKING	1	0.700	0.700
TWP 21 RGE 14 W3	VIKING	2	0.660 - 0.700	0.680
TWP 22 RGE 14 W3	VIKING	1	0.670	0.670
TWP 23 RGE 14 W3	VIKING	1	1.100	1.100
TWP 26 RGE 14 W3	SPINNEY HILL	1	1.280	1.280

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 29 RGE 14 W3	DUPEROW	1	0.163	0.163
TWP 35 RGE 14 W3	BLAIRMORE	1	0.150	0.150
TWP 46 RGE 14 W3	DAWSON BAY	1	0.061	0.061
TWP 56 RGE 14 W3	WINNIPEGOSIS	1	0.370	0.370
	DEADWOOD	2	0.380 - 0.390	0.385
TWP 58 RGE 14 W3	WINNIPEGOSIS	1	0.258	0.258
TWP 63 RGE 14 W3	WINNIPEGOSIS	1	0.590	0.590
TWP 12 RGE 15 W3	ROSERAY	1	0.830	0.830
TWP 15 RGE 15 W3	CANTUAR	1	0.840	0.840
	ROSERAY	3	0.910 - 0.980	0.950
TWP 16 RGE 15 W3	CANTUAR	4	0.960 - 1.070	1.008
	ROSERAY	2	0.670 - 0.835	0.753
TWP 17 RGE 15 W3	BLAIRMORE	3	1.100 - 1.720	1.307
	CANTUAR	4	1.040 - 2.000	1.535
	ROSERAY	3	1.780 - 2.230	1.953
	UPPER SHAUNAVON	1	1.740	1.740
	LOWER SHAUNAVON	3	1.250 - 1.600	1.380
	MADISON (UNDIFF)	2	1.070 - 1.650	1.360
TWP 18 RGE 15 W3	CANTUAR	1	2.050	2.050
TWP 23 RGE 15 W3	VIKING	1	0.620	0.620
TWP 33 RGE 15 W3	INTERLAKE	1	0.057	0.057
TWP 34 RGE 15 W3	BLAIRMORE	1	0.160	0.160
	BIRDBEAR	1	0.099	0.099
TWP 51 RGE 15 W3	WINNIPEGOSIS	1	0.096	0.096
TWP 60 RGE 15 W3	BLAIRMORE	1	5.800	5.800
	DEADWOOD	1	0.300	0.300
TWP 61 RGE 15 W3	WINNIPEGOSIS	1	0.480	0.480
	DEADWOOD	1	0.420	0.420
TWP 64 RGE 15 W3	DEADWOOD	1	0.510	0.510
TWP 68 RGE 15 W3	WINNIPEGOSIS	1	0.359	0.359
	WINNIPEGOSIS-ASHERN	1	0.284	0.284
	MEADOW LAKE	2	0.427 - 0.481	0.454
TWP 1 RGE 16 W3	UPPER SHAUNAVON	1	0.755	0.755
TWP 13 RGE 16 W3	CANTUAR	1	0.770	0.770
	BASAL BLAIRMORE	1	0.690	0.690
	ROSERAY	1	0.700	0.700
TWP 14 RGE 16 W3	ROSERAY	1	0.667	0.667
	LOWER ROSERAY	1	0.698	0.698
TWP 15 RGE 16 W3	CANTUAR	2	0.720 - 0.900	0.810
	ROSERAY	4	0.780 - 1.630	1.135
TWP 16 RGE 16 W3	BLAIRMORE	5	0.880 - 1.830	1.146
	CANTUAR	2	0.935 - 0.960	0.948
	BASAL CANTUAR	1	1.280	1.280
	BASAL CANTUAR-ROSERAY	1	0.960	0.960
	ROSERAY	11	0.745 - 1.400	0.989
TWP 16 RGE 16 W3	LOWER SHAUNAVON	4	0.662 - 1.500	1.146
TWP 17 RGE 16 W3	ROSERAY	8	0.550 - 1.280	1.031
	BIRDBEAR	1	0.820	0.820
	DUPEROW	3	0.076 - 0.500	0.225
	INTERLAKE	1	0.059	0.059
TWP 18 RGE 16 W3	BLAIRMORE	1	0.710	0.710
	UPPER SHAUNAVON	1	1.380	1.380
TWP 19 RGE 16 W3	UPPER SHAUNAVON	1	1.220	1.220
	LOWER SHAUNAVON	1	1.210	1.210
TWP 23 RGE 16 W3	LOWER COLORADO	1	0.580	0.580
	VIKING	1	0.480	0.480
TWP 24 RGE 16 W3	VIKING	2	0.740	0.740
TWP 26 RGE 16 W3	SPINNEY HILL	1	1.200	1.200
TWP 32 RGE 16 W3	BIRDBEAR	1	0.095	0.095
TWP 33 RGE 16 W3	BLAIRMORE	1	0.160	0.160
	BIRDBEAR	1	0.117	0.117
TWP 34 RGE 16 W3	BAKKEN	1	0.128	0.128
	BIRDBEAR	3	0.124 - 0.155	0.136
TWP 38 RGE 16 W3	BLAIRMORE	1	0.145	0.145
TWP 45 RGE 16 W3	WINNIPEGOSIS	1	0.048	0.048
TWP 59 RGE 16 W3	BLAIRMORE	2	1.520 - 1.970	1.745
	DAWSON BAY	1	0.590	0.590
	WINNIPEGOSIS	1	0.380	0.380
	DEADWOOD	1	0.310	0.310
TWP 66 RGE 16 W3	MEADOW LAKE	1	0.212	0.212
TWP 2 RGE 17 W3	UPPER SHAUNAVON	1	0.395	0.395
	MADISON (UNDIFF)	1	1.700	1.700
TWP 3 RGE 17 W3	BELLY RIVER	1	5.320	5.320
TWP 6 RGE 17 W3	DAWSON BAY	1	1.400	1.400
TWP 8 RGE 17 W3	CANTUAR	1	0.650	0.650
TWP 9 RGE 17 W3	MADISON (UNDIFF)	1	1.850	1.850
TWP 10 RGE 17 W3	BASAL BLAIRMORE	1	0.540	0.540
	UPPER SHAUNAVON	1	0.562	0.562
TWP 11 RGE 17 W3	UPPER SHAUNAVON	4	0.587 - 0.810	0.697
TWP 12 RGE 17 W3	BELLY RIVER	2	3.240 - 3.500	3.370
	UPPER SHAUNAVON	2	0.650 - 0.690	0.670
TWP 13 RGE 17 W3	ROSERAY	2	0.700 - 0.800	0.750
TWP 14 RGE 17 W3	ROSERAY	1	0.680	0.680
TWP 15 RGE 17 W3	BLAIRMORE	1	0.913	0.913
	CANTUAR	9	0.530 - 0.730	0.637
	BASAL CANTUAR	1	0.661	0.661
	CANTUAR-ROSERAY	1	0.570	0.570
	UPPER ROSERAY	1	0.902	0.902
	ROSERAY	3	0.610 - 1.000	0.756
TWP 16 RGE 17 W3	CANTUAR	2	0.820 - 0.880	0.850
	ROSERAY	3	0.735 - 0.880	0.798
	LOWER ROSERAY	2	0.880 - 0.900	0.890

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 16 RGE 17 W3	UPPER SHAUNAVON	1	0.860	0.860
	MADISON (UNDIFF)	1	1.420	1.420
	DUPEROW	3	0.062 - 0.700	0.313
	SOURIS RIVER	1	0.192	0.192
	WINNIPEGOSIS	1	0.067	0.067
	INTERLAKE	2	0.069 - 0.071	0.070
TWP 17 RGE 17 W3	CANTUAR	4	0.850 - 1.120	0.985
	ROSERAY	1	1.410	1.410
	UPPER SHAUNAVON	1	1.280	1.280
TWP 18 RGE 17 W3	BELLY RIVER	2	2.600 - 6.500	4.550
	CANTUAR	2	1.050 - 1.370	1.210
	ROSERAY	28	0.610 - 2.700	1.274
	UPPER SHAUNAVON	5	1.060 - 1.764	1.415
	UPPER-LOWER SHAUNAVON	1	1.360	1.360
TWP 19 RGE 17 W3	CANTUAR	5	0.835 - 1.180	0.953
	ROSERAY	1	0.860	0.860
	UPPER SHAUNAVON	3	1.040 - 1.640	1.280
TWP 20 RGE 17 W3	CANTUAR	1	0.780	0.780
TWP 22 RGE 17 W3	VIKING	1	0.610	0.610
TWP 23 RGE 17 W3	VIKING	2	0.490 - 0.590	0.540
TWP 24 RGE 17 W3	VIKING	3	0.490 - 0.660	0.572
TWP 25 RGE 17 W3	VIKING	2	0.760 - 0.880	0.820
	BLAIRMORE	1	0.760	0.760
TWP 26 RGE 17 W3	MADISON (UNDIFF)	1	0.400	0.400
	WINNIPEGOSIS	1	0.049	0.049
	ASHERN	1	0.047	0.047
TWP 27 RGE 17 W3	VIKING	1	0.853	0.853
TWP 28 RGE 17 W3	VIKING	1	1.110	1.110
TWP 31 RGE 17 W3	BLAIRMORE	1	0.203	0.203
TWP 56 RGE 17 W3	DEADWOOD	2	0.151 - 0.152	0.152
TWP 58 RGE 17 W3	MEADOW LAKE	1	0.440	0.440
TWP 9 RGE 18 W3	RAVENSCRAG	1	7.900	7.900
	BELLY RIVER	1	4.280	4.280
	UPPER SHAUNAVON	3	0.440 - 1.130	0.790
TWP 10 RGE 18 W3	UPPER SHAUNAVON	1	1.300	1.300
	LOWER SHAUNAVON	2	0.415 - 0.620	0.518
TWP 11 RGE 18 W3	BASAL BLAIRMORE	1	0.540	0.540
	UPPER SHAUNAVON	2	0.460 - 0.490	0.475
TWP 12 RGE 18 W3	ROSERAY	1	0.680	0.680
	UPPER SHAUNAVON	13	0.523 - 1.630	1.060
TWP 13 RGE 18 W3	ROSERAY	3	0.520 - 0.810	0.673
	UPPER SHAUNAVON	2	0.920 - 1.130	1.025
TWP 14 RGE 18 W3	ROSERAY	3	0.750 - 0.940	0.813
	BIRDBEAR	1	0.550	0.550
	DUPEROW	3	0.108 - 0.540	0.264
TWP 15 RGE 18 W3	BLAIRMORE	1	0.710	0.710
TWP 15 RGE 18 W3	CANTUAR	1	0.660	0.660
	CANTUAR-ROSERAY	1	0.750	0.750
	ROSERAY	6	0.580 - 0.840	0.727
	UPPER SHAUNAVON	4	0.715 - 0.850	0.794
TWP 16 RGE 18 W3	BLAIRMORE	1	0.760	0.760
	CANTUAR	6	0.560 - 0.870	0.653
	BASAL CANTUAR	1	0.500	0.500
	ROSERAY	9	0.500 - 0.900	0.734
TWP 17 RGE 18 W3	BELLY RIVER	1	2.050	2.050
	BLAIRMORE	4	0.660 - 1.150	0.820
	CANTUAR	2	0.785 - 0.920	0.853
	ROSERAY	11	0.790 - 1.380	0.912
	BIRDBEAR	1	1.070	1.070
	DUPEROW	5	0.080 - 0.200	0.132
	SOURIS RIVER	2	0.080 - 0.090	0.085
TWP 18 RGE 18 W3	CANTUAR	2	0.870 - 0.960	0.915
	UPPER SHAUNAVON	3	0.785 - 1.330	1.122
	LOWER SHAUNAVON	4	1.020 - 1.420	1.243
TWP 24 RGE 18 W3	VIKING	2	0.500 - 0.590	0.545
TWP 25 RGE 18 W3	VIKING	1	0.265	0.265
TWP 28 RGE 18 W3	BLAIRMORE	1	0.920	0.920
	VIKING	1	0.213	0.213
TWP 29 RGE 18 W3	STONY MOUNTAIN	1	0.050	0.050
TWP 32 RGE 18 W3	RANKEN	1	0.580	0.580
TWP 33 RGE 18 W3	BLAIRMORE	1	0.340	0.340
TWP 49 RGE 18 W3	SOURIS RIVER	1	0.085	0.085
TWP 51 RGE 18 W3	DAWSON BAY	1	0.072	0.072
TWP 55 RGE 18 W3	ST. WALBURG	1	0.374	0.374
TWP 4 RGE 19 W3	BELLY RIVER	1	2.300	2.300
TWP 7 RGE 19 W3	BLAIRMORE	1	0.670	0.670
	UPPER SHAUNAVON	2	0.345 - 0.410	0.378
TWP 8 RGE 19 W3	BELLY RIVER	7	4.200 - 4.550	4.326
	UPPER SHAUNAVON	1	0.675	0.675
	SHAUNAVON	2	0.370 - 0.400	0.385
	LOWER SHAUNAVON	1	0.357	0.357
TWP 9 RGE 19 W3	BELLY RIVER	1	4.450	4.450
	SHAUNAVON	1	0.430	0.430
TWP 10 RGE 19 W3	BELLY RIVER	1	2.400	2.400
	UPPER SHAUNAVON	1	1.600	1.600
TWP 11 RGE 19 W3	BELLY RIVER	1	3.300	3.300
	UPPER SHAUNAVON	3	0.420 - 0.510	0.463
TWP 12 RGE 19 W3	BASAL CANTUAR	1	0.625	0.625
	ROSERAY	2	0.560 - 0.580	0.570
	UPPER SHAUNAVON	3	0.500 - 0.600	0.537
TWP 13 RGE 19 W3	BELLY RIVER	2	2.260 - 2.730	2.495
	BLAIRMORE	1	0.780	0.780
	CANTUAR	3	0.530 - 0.600	0.557

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 13 RGE 19 W3	BASAL CANTUAR	2	0.530	0.530
	ROSERAY	12	0.530 - 0.880	0.691
	UPPER SHAUNAVON	11	0.540 - 0.923	0.721
	LOWER SHAUNAVON	1	0.600	0.600
	GRAVELBOURG	2	0.690 - 0.796	0.743
	MADISON (UNDIFF)	1	1.470	1.470
TWP 14 RGE 19 W3	BELLY RIVER	1	2.200	2.200
	BLAIRMORE	2	0.610	0.610
	CANTUAR	1	0.460	0.460
	BASAL CANTUAR	1	0.581	0.581
	ROSERAY	7	0.412 - 0.800	0.654
	UPPER SHAUNAVON	7	0.505 - 1.080	0.728
	GRAVELBOURG	1	0.555	0.555
	BIRDBEAR	1	0.124	0.124
	DUPEROW	5	0.046 - 0.178	0.104
TWP 15 RGE 19 W3	BELLY RIVER	1	2.520	2.520
	BLAIRMORE	1	0.670	0.670
	BASAL BLAIRMORE	1	0.542	0.542
	UPPER SHAUNAVON	4	0.500 - 0.690	0.560
	LOWER SHAUNAVON	1	0.690	0.690
TWP 16 RGE 19 W3	BLAIRMORE	1	0.750	0.750
	CANTUAR	1	0.750	0.750
	BASAL BLAIRMORE	2	0.450 - 0.550	0.500
	ROSERAY	8	0.420 - 0.880	0.674
	UPPER SHAUNAVON	4	0.590 - 0.900	0.761
	LOWER SHAUNAVON	1	1.200	1.200
TWP 17 RGE 19 W3	ROSERAY	2	0.675 - 0.860	0.768
	LOWER ROSERAY	1	0.970	0.970
	UPPER SHAUNAVON	2	0.640 - 0.950	0.795
TWP 18 RGE 19 W3	BASAL BLAIRMORE-UPPER SHAUNAVON	1	0.950	0.950
	UPPER SHAUNAVON	2	0.690 - 0.830	0.760
TWP 21 RGE 19 W3	VIKING	1	0.530	0.530
TWP 22 RGE 19 W3	BASAL CANTUAR	1	0.582	0.582
TWP 25 RGE 19 W3	VIKING	3	0.590 - 0.640	0.621
TWP 28 RGE 19 W3	VIKING	1	0.825	0.825
TWP 29 RGE 19 W3	BLAIRMORE	1	1.110	1.110
TWP 31 RGE 19 W3	VIKING	1	0.725	0.725
	SPINNEY HILL	1	0.740	0.740
TWP 32 RGE 19 W3	THREE FORKS	1	0.440	0.440
TWP 36 RGE 19 W3	DUPEROW	4	0.242 - 0.814	0.598
TWP 40 RGE 19 W3	VIKING	1	0.410	0.410
	BLAIRMORE	1	0.335	0.335
	UNITY	1	0.340	0.340
TWP 58 RGE 19 W3	WINNIPEGOSIS	1	0.252	0.252
	DEADWOOD	1	0.147	0.147
TWP 60 RGE 19 W3	BLAIRMORE	1	2.390	2.390
TWP 63 RGE 19 W3	WINNIPEGOSIS	1	0.186	0.186
TWP 2 RGE 20 W3	UPPER SHAUNAVON	1	1.020	1.020
	MADISON (UNDIFF)	1	0.709	0.709
TWP 3 RGE 20 W3	VIKING	1	0.580	0.580
	CANTUAR	1	0.710	0.710
	BASAL BLAIRMORE	1	0.720	0.720
	UPPER SHUANAVON	1	0.494	0.494
TWP 4 RGE 20 W3	BELLY RIVER	2	4.500 - 4.660	4.580
	UPPER SHAUNAVON	3	0.310 - 0.421	0.361
TWP 5 RGE 20 W3	BELLY RIVER	3	1.840 - 2.400	2.057
	UPPER SHAUNAVON	5	0.280 - 0.390	0.338
TWP 6 RGE 20 W3	SHAUNAVON	1	0.350	0.350
	GRAVELBOURG	1	0.165	0.165
TWP 7 RGE 20 W3	BELLY RIVER	2	2.050 - 2.200	2.125
	VIKING	2	0.600 - 0.610	0.605
	BLAIRMORE	1	0.600	0.600
	UPPER SHAUNAVON	3	0.460 - 0.580	0.527
	LOWER SHAUNAVON	1	0.700	0.700
TWP 11 RGE 20 W3	UPPER SHAUNAVON	1	0.560	0.560
	LOWER SHAUNAVON	1	0.420	0.420
TWP 12 RGE 20 W3	UPPER SHAUNAVON	1	0.700	0.700
TWP 13 RGE 20 W3	CANTUAR	1	0.570	0.570
	UPPER SHAUNAVON	4	0.440 - 0.800	0.557
	MADISON (UNDIFF)	1	0.480	0.480
TWP 14 RGE 20 W3	ROSERAY	2	0.605 - 1.020	0.813
	UPPER SHAUNAVON	3	0.540 - 0.615	0.588
TWP 15 RGE 20 W3	UPPER SHAUNAVON	2	0.720 - 0.780	0.750
TWP 16 RGE 20 W3	UPPER SHAUNAVON	3	0.540 - 0.720	0.637
TWP 17 RGE 20 W3	ROSERAY	1	0.558	0.558
	UPPER SHAUNAVON	1	0.790	0.790
	UPPER-LOWER SHAUNAVON	1	0.560	0.560
TWP 21 RGE 20 W3	VIKING	1	0.490	0.490
	SOURIS RIVER	1	0.054	0.054
TWP 22 RGE 20 W3	BLAIRMORE	1	0.323	0.323
TWP 23 RGE 20 W3	VIKING	1	0.494	0.494
TWP 28 RGE 20 W3	VIKING	2	0.421 - 0.480	0.451
TWP 31 RGE 20 W3	BELLY RIVER	1	3.640	3.640
	BLAIRMORE	1	0.541	0.541
TWP 32 RGE 20 W3	BLAIRMORE	1	0.572	0.572
	BAKKEN	1	0.362	0.362
TWP 36 RGE 20 W3	DUPEROW	1	0.140	0.140
TWP 43 RGE 20 W3	BLAIRMORE	1	0.120	0.120
TWP 49 RGE 20 W3	DEADWOOD	1	0.042	0.042
TWP 50 RGE 20 W3	SOURIS RIVER	1	0.085	0.085
	DAWSON BAY	1	0.056	0.056
TWP 54 RGE 20 W3	CUMMINGS	1	1.180	1.180

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TWP 57 RGE 20 W3	BLAIRMORE	1	3.320	3.320
TWP 60 RGE 20 W3	SOURIS RIVER	1	0.470	0.470
	WINNIPEGOSIS	1	0.170	0.170
	DEADWOOD	2	0.100 - 0.130	0.115
TWP 61 RGE 20 W3	BLAIRMORE	1	1.530	1.530
	WINNIPEGOSIS	1	0.123	0.123
TWP 62 RGE 20 W3	BLAIRMORE	1	1.620	1.620
TWP 1 RGE 21 W3	BELLY RIVER	1	4.460	4.460
TWP 2 RGE 21 W3	UPPER SHAUNAVON	1	0.720	0.720
TWP 3 RGE 21 W3	UPPER SHAUNAVON	1	0.790	0.790
	MADISON (UNDIFF)	1	0.192	0.192
TWP 4 RGE 21 W3	UPPER SHAUNAVON	1	0.570	0.570
TWP 7 RGE 21 W3	UPPER SHAUNAVON	2	0.445 - 0.460	0.453
TWP 10 RGE 21 W3	UPPER SHAUNAVON	1	0.515	0.515
	UPPER-LOWER SHAUNAVON	1	0.520	0.520
TWP 11 RGE 21 W3	UPPER SHUANAVON	1	0.725	0.725
TWP 13 RGE 21 W3	VIKING	1	0.495	0.495
	UPPER SHAUNAVON	1	0.520	0.520
TWP 14 RGE 21 W3	UPPER SHAUNAVON	1	0.483	0.483
TWP 17 RGE 21 W3	UPPER-LOWER SHAUNAVON	1	0.560	0.560
TWP 18 RGE 21 W3	GRAVELBOURG	1	0.740	0.740
	BIRDBEAR	1	0.580	0.580
TWP 22 RGE 21 W3	VIKING	2	0.495 - 0.560	0.528
	MADISON (UNDIFF)	1	0.503	0.503
	BAKKEN	1	0.485	0.485
TWP 26 RGE 21 W3	VIKING	1	0.420	0.420
TWP 28 RGE 21 W3	VIKING	1	0.357	0.357
TWP 32 RGE 21 W3	RIBSTONE CREEK	1	1.370	1.370
TWP 34 RGE 21 W3	BASAL BLAIRMORE-BIRDBEAR	1	0.313	0.313
	BIRDBEAR	1	0.300	0.300
TWP 35 RGE 21 W3	BIRDBEAR	1	0.330	0.330
	DUPEROW	1	0.166	0.166
TWP 51 RGE 21 W3	SOURIS RIVER	1	0.144	0.144
	WINNIPEGOSIS	1	0.057	0.057
TWP 55 RGE 21 W3	SOURIS RIVER	1	0.185	0.185
TWP 56 RGE 21 W3	BLAIRMORE	1	1.120	1.120
TWP 57 RGE 21 W3	MEADOW LAKE	1	0.130	0.130
TWP 58 RGE 21 W3	BLAIRMORE	1	1.300	1.300
TWP 61 RGE 21 W3	ST. WALBURG	1	0.500	0.500
TWP 63 RGE 21 W3	WINNIPEGOSIS	1	0.121	0.121
TWP 1 RGE 22 W3	UPPER SHAUNAVON	1	0.605	0.605
TWP 2 RGE 22 W3	UPPER SHAUNAVON	1	1.050	1.050
TWP 6 RGE 22 W3	SOURIS RIVER	1	0.100	0.100
	DAWSON BAY	1	0.090	0.090
TWP 6 RGE 22 W3	STONEWALL	1	0.060	0.060
	RED RIVER	1	0.060	0.060
	DEADWOOD	1	1.300	1.300
TWP 7 RGE 22 W3	UPPER SHAUNAVON	1	0.435	0.435
TWP 9 RGE 22 W3	LOWER SHAUNAVON	1	1.080	1.080
TWP 10 RGE 22 W3	VIKING	1	0.530	0.530
	UPPER SHAUNAVON	1	0.745	0.745
TWP 11 RGE 22 W3	UPPER-LOWER SHAUNAVON	1	0.699	0.699
TWP 13 RGE 22 W3	UPPER SHAUNAVON	2	0.510 - 0.570	0.540
TWP 14 RGE 22 W3	UPPER SHAUNAVON	3	0.480 - 0.620	0.544
TWP 16 RGE 22 W3	BLAIRMORE	1	0.760	0.760
TWP 20 RGE 22 W3	VIKING	1	0.590	0.590
TWP 22 RGE 22 W3	LOWER SHAUNAVON-GRAVELBOURG	1	0.678	0.678
TWP 23 RGE 22 W3	VIKING	1	0.460	0.460
TWP 24 RGE 22 W3	BAKKEN	1	0.430	0.430
TWP 26 RGE 22 W3	VIKING	1	0.440	0.440
	BLAIRMORE	1	0.680	0.680
TWP 28 RGE 22 W3	VIKING	1	0.395	0.395
TWP 30 RGE 22 W3	VIKING	5	0.460 - 0.479	0.468
TWP 31 RGE 22 W3	RIBSTONE CREEK	1	1.740	1.740
TWP 32 RGE 22 W3	SPINNEY HILL-BLAIRMORE	1	0.600	0.600
	BAKKEN	1	0.580	0.580
TWP 33 RGE 22 W3	BLAIRMORE	1	0.555	0.555
	DUPEROW	1	0.220	0.220
TWP 43 RGE 22 W3	DUPEROW	1	0.230	0.230
	WINNIPEGOSIS	1	0.055	0.055
TWP 45 RGE 22 W3	WINNIPEGOSIS	1	0.050	0.050
TWP 60 RGE 22 W3	SOURIS RIVER	1	0.395	0.395
TWP 62 RGE 22 W3	SOURIS RIVER	1	0.530	0.530
	WINNIPEGOSIS	1	0.120	0.120
	DEADWOOD	1	0.086	0.086
TWP 65 RGE 22 W3	BLAIRMORE	1	4.300	4.300
TWP 5 RGE 23 W3	UPPER SHAUNAVON	2	0.340 - 0.614	0.477
	LOWER SHAUNAVON	1	0.352	0.352
TWP 7 RGE 23 W3	UPPER SHAUNAVON	1	0.801	0.801
TWP 9 RGE 23 W3	UPPER SHAUNAVON	1	0.690	0.690
TWP 10 RGE 23 W3	UPPER SHAUNAVON	1	0.700	0.700
TWP 12 RGE 23 W3	VIKING	3	0.560 - 0.710	0.613
	CANTUAR	1	0.720	0.720
	UPPER SHAUNAVON	2	0.600 - 0.720	0.660
TWP 13 RGE 23 W3	UPPER SHAUNAVON	2	0.590 - 0.710	0.650
TWP 14 RGE 23 W3	UPPER SHAUNAVON	1	0.780	0.780
TWP 16 RGE 23 W3	MADISON (UNDIFF)	1	0.780	0.780
TWP 17 RGE 23 W3	SHAUNAVON	1	0.680	0.680

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 17 RGE 23 W3	MADISON (UNDIFF)	1	0.720	0.720
TWP 21 RGE 23 W3	VIKING	1	0.680	0.680
TWP 26 RGE 23 W3	VIKING	1	0.570	0.570
TWP 27 RGE 23 W3	VIKING	2	0.358 - 0.580	0.469
TWP 29 RGE 23 W3	BELLY RIVER	1	2.870	2.870
TWP 30 RGE 23 W3	BAKKEN	1	0.480	0.480
	BAKKEN-BIG VALLEY	1	0.356	0.356
	BIRDBEAR	1	0.280	0.280
TWP 31 RGE 23 W3	BELLY RIVER	1	5.377	5.377
	VIKING	1	0.480	0.480
	BAKKEN	2	0.377 - 0.444	0.411
	BIRDBEAR	1	0.370	0.370
TWP 43 RGE 23 W3	DUPEROW	1	0.205	0.205
TWP 44 RGE 23 W3	MCLAREN	1	0.470	0.470
TWP 45 RGE 23 W3	WINNIPEGOSIS	1	0.055	0.055
TWP 49 RGE 23 W3	WASECA	7	0.080 - 0.130	0.104
TWP 56 RGE 23 W3	SOURIS RIVER	1	0.500	0.500
	WINNIPEGOSIS	1	0.120	0.120
	DEADWOOD	1	0.068	0.068
TWP 58 RGE 23 W3	SPARKY	1	1.110	1.110
TWP 59 RGE 23 W3	SOURIS RIVER	1	0.725	0.725
	WINNIPEGOSIS	1	0.200	0.200
TWP 66 RGE 23 W3	SOURIS RIVER	2	0.062 - 0.084	0.073
	WINNIPEGOSIS	1	0.065	0.065
TWP 1 RGE 24 W3	UPPER SHAUNAVON	1	1.280	1.280
	MADISON (UNDIFF)	1	1.338	1.338
TWP 2 RGE 24 W3	VIKING	1	0.720	0.720
	BLAIRMORE	1	1.330	1.330
	UPPER SHAUNAVON	5	1.120 - 1.560	1.384
	UPPER-LOWER SHAUNAVON	1	2.130	2.130
	MADISON (UNDIFF)	1	1.430	1.430
TWP 4 RGE 24 W3	UPPER SHAUNAVON	1	0.740	0.740
TWP 7 RGE 24 W3	UPPER-LOWER SHAUNAVON	1	1.039	1.039
TWP 8 RGE 24 W3	UPPER-LOWER SHAUNAVON	1	0.565	0.565
TWP 14 RGE 24 W3	UPPER SHAUNAVON	1	0.840	0.840
TWP 15 RGE 24 W3	VIKING	1	0.660	0.660
	BLAIRMORE	1	0.880	0.880
TWP 20 RGE 24 W3	DUPEROW	1	0.177	0.177
TWP 21 RGE 24 W3	VIKING	1	0.699	0.699
	UPPER-LOWER SHAUNAVON	1	0.400	0.400
	GRAVELBOURG	2	0.350 - 0.811	0.581
TWP 23 RGE 24 W3	VIKING	3	0.505 - 0.565	0.525
TWP 27 RGE 24 W3	BLAIRMORE	1	0.565	0.565
TWP 29 RGE 24 W3	VIKING	1	0.370	0.370
TWP 30 RGE 24 W3	VIKING	1	0.630	0.630
TWP 32 RGE 24 W3	BLAIRMORE	1	0.320	0.320
	BAKKEN	3	0.287 - 0.365	0.342
TWP 33 RGE 24 W3	BLAIRMORE	1	0.370	0.370
TWP 34 RGE 24 W3	BIRDBEAR	1	0.320	0.320
TWP 39 RGE 24 W3	BIRDBEAR	1	0.385	0.385
TWP 44 RGE 24 W3	WINNIPEGOSIS	1	0.046	0.046
TWP 51 RGE 24 W3	DEADWOOD	1	0.048	0.048
TWP 59 RGE 24 W3	BLAIRMORE	1	1.600	1.600
TWP 1 RGE 25 W3	BIRDBEAR	1	1.120	1.120
	DUPEROW	2	1.140 - 1.530	1.335
TWP 5 RGE 25 W3	DUPEROW	1	0.940	0.940
	SOURIS RIVER	1	1.330	1.330
TWP 6 RGE 25 W3	UPPER SHAUNAVON	1	1.100	1.100
TWP 8 RGE 25 W3	UPPER-LOWER SHAUNAVON	1	0.796	0.796
TWP 9 RGE 25 W3	UPPER SHAUNAVON	1	0.910	0.910
TWP 12 RGE 25 W3	UPPER SHAUNAVON	1	0.940	0.940
	LOWER SHAUNAVON	1	0.920	0.920
TWP 13 RGE 25 W3	VIKING	1	0.980	0.980
	ROSERAY	1	0.970	0.970
	LOWER SHAUNAVON	1	1.440	1.440
	MADISON (UNDIFF)	1	0.700	0.700
TWP 22 RGE 25 W3	DUPEROW	1	0.050	0.050
TWP 24 RGE 25 W3	VIKING	5	0.510 - 0.768	0.622
TWP 25 RGE 25 W3	BAKKEN	1	0.610	0.610
TWP 27 RGE 25 W3	VIKING	1	0.400	0.400
	BIRDBEAR	1	0.230	0.230
TWP 29 RGE 25 W3	BIRDBEAR	1	0.462	0.462
TWP 30 RGE 25 W3	BELLY RIVER	1	2.710	2.710
TWP 31 RGE 25 W3	LEA PARK	2	3.800 - 3.920	3.860
	VIKING	7	0.500 - 0.600	0.524
TWP 33 RGE 25 W3	BAKKEN	1	0.540	0.540
TWP 38 RGE 25 W3	BLAIRMORE	1	0.365	0.365
TWP 48 RGE 25 W3	SPARKY	1	0.092	0.092
TWP 53 RGE 25 W3	ST. WALBURG	1	0.172	0.172
	COLONY	1	0.160	0.160
	SPARKY	1	0.212	0.212
TWP 54 RGE 25 W3	COLONY-MCLAREN	1	0.288	0.288
	REX	1	0.294	0.294
TWP 62 RGE 25 W3	SOURIS RIVER	1	0.740	0.740
	WINNIPEGOSIS	1	0.060	0.060
TWP 63 RGE 25 W3	BLAIRMORE	1	1.220	1.220
TWP 64 RGE 25 W3	BLAIRMORE	1	1.200	1.200
TWP 65 RGE 25 W3	BLAIRMORE	1	3.200	3.200

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 77 RGE 25 W3	DAWSON BAY	1	0.153	0.153
TWP 3 RGE 26 W3	RIBSTONE CREEK	1	1.240	1.240
	UPPER SHAUNAVON	1	1.030	1.030
	MADISON (UNDIFF)	2	0.535 - 1.040	0.788
TWP 5 RGE 26 W3	UPPER SHAUNAVON	1	0.935	0.935
TWP 8 RGE 26 W3	UPPER SHAUNAVON	1	1.229	1.229
	BIRDBEAR	1	2.080	2.080
	DUPEROW	1	0.890	0.890
TWP 9 RGE 26 W3	VIKING	1	0.930	0.930
	UPPER SHAUNAVON	1	1.330	1.330
TWP 10 RGE 26 W3	UPPER-LOWER SHAUNAVON	1	1.210	1.210
TWP 11 RGE 26 W3	VIKING	1	1.200	1.200
	MADISON (UNDIFF)	1	0.950	0.950
TWP 13 RGE 26 W3	UPPER SHAUNAVON	1	1.150	1.150
TWP 17 RGE 26 W3	UPPER SHAUNAVON	1	0.790	0.790
	GRAVELBOURG	1	0.800	0.800
TWP 18 RGE 26 W3	VIKING	1	0.675	0.675
	BLAIRMORE	1	0.830	0.830
	MADISON (UNDIFF)	1	0.870	0.870
TWP 24 RGE 26 W3	VIKING	2	0.320 - 0.455	0.388
TWP 25 RGE 26 W3	VIKING	3	0.450 - 0.525	0.480
TWP 28 RGE 26 W3	BLAIRMORE	1	0.495	0.495
	BIRDBEAR	1	0.257	0.257
TWP 29 RGE 26 W3	VIKING	1	0.343	0.343
	BAKKEN	1	0.380	0.380
	BIRDBEAR	1	0.286	0.286
TWP 30 RGE 26 W3	BAKKEN	2	0.371 - 0.424	0.398
TWP 31 RGE 26 W3	BLAIRMORE	4	0.170 - 0.365	0.298
	BAKKEN	2	0.342 - 0.350	0.346
	BIRDBEAR	1	0.164	0.164
TWP 32 RGE 26 W3	BLAIRMORE	1	0.360	0.360
TWP 37 RGE 26 W3	BLAIRMORE	2	0.280 - 0.365	0.323
TWP 39 RGE 26 W3	BLAIRMORE	1	0.160	0.160
TWP 41 RGE 26 W3	DUPEROW	1	0.152	0.152
TWP 44 RGE 26 W3	SPARKY	1	0.133	0.133
TWP 49 RGE 26 W3	DINA	1	0.180	0.180
TWP 50 RGE 26 W3	RIBSTONE CREEK	1	5.060	5.060
	SPARKY	1	0.094	0.094
TWP 53 RGE 26 W3	COLONY	1	0.200	0.200
TWP 54 RGE 26 W3	BLAIRMORE	2	0.129 - 0.246	0.188
	COLONY	1	0.196	0.196
	DUPEROW	1	0.216	0.216
	SOURIS RIVER	4	0.077 - 0.295	0.220
	SOURIS RIVER-DAWSON BAY	1	0.062	0.062
	WINNIPEGOSIS	1	0.051	0.051
TWP 54 RGE 26 W3	WINNIPEGOSIS-ASHERN-MEADOW LAKE	1	0.051	0.051
	RED RIVER	1	0.051	0.051
	DEADWOOD	2	0.051	0.051
TWP 55 RGE 26 W3	SOURIS RIVER	1	0.160	0.160
TWP 58 RGE 26 W3	SOURIS RIVER	1	0.162	0.162
TWP 62 RGE 26 W3	COLONY	1	0.660	0.660
	CUMMINGS-DINA	1	1.520	1.520
TWP 64 RGE 26 W3	BLAIRMORE	2	4.600 - 5.000	4.800
TWP 65 RGE 26 W3	BLAIRMORE	1	2.040	2.040
	WINNIPEGOSIS	1	0.048	0.048
TWP 79 RGE 26 W3	WINNIPEGOSIS	1	0.179	0.179
TWP 2 RGE 27 W3	MILK RIVER	1	0.523	0.523
	UPPER SHAUNAVON	1	1.550	1.550
	LOWER GRAVELBOURG	1	1.340	1.340
	MADISON (UNDIFF)	2	1.425 - 2.000	1.713
TWP 3 RGE 27 W3	UPPER SHAUNAVON	1	1.030	1.030
	UPPER-LOWER SHAUNAVON	1	1.400	1.400
	MADISON (UNDIFF)	3	0.620 - 1.120	0.850
	DUPEROW	1	0.940	0.940
TWP 5 RGE 27 W3	UPPER SHAUNAVON	2	0.810 - 0.955	0.883
	DUPEROW	2	0.064 - 0.320	0.192
TWP 6 RGE 27 W3	MILK RIVER	2	0.640 - 1.700	1.170
	UPPER SHAUNAVON	1	0.970	0.970
TWP 8 RGE 27 W3	MILK RIVER	2	0.425 - 0.560	0.493
	SECOND WHITE SPECKS	1	0.470	0.470
	GRAVELBOURG-MADISON	1	0.785	0.785
TWP 10 RGE 27 W3	BLAIRMORE	1	0.880	0.880
	UPPER SHAUNAVON	1	1.130	1.130
	MADISON (UNDIFF)	1	0.625	0.625
TWP 11 RGE 27 W3	UPPER SHAUNAVON	1	1.300	1.300
	MADISON (UNDIFF)	1	0.803	0.803
TWP 13 RGE 27 W3	DUPEROW	1	0.069	0.069
	WINNIPEGOSIS	1	0.047	0.047
	STONEWALL-STONY MOUNTAIN	1	0.048	0.048
TWP 14 RGE 27 W3	VIKING	1	0.950	0.950
	LOWER SHAUNAVON	1	0.930	0.930
	DUPEROW	2	0.061 - 0.067	0.064
	WINNIPEGOSIS	1	0.050	0.050
TWP 16 RGE 27 W3	LOWER SHAUNAVON	1	0.860	0.860
TWP 18 RGE 27 W3	LOWER SHAUNAVON	1	0.900	0.900

AREA	FORMATION	NUMBER OF SAMPLES	RANGE OF RESISTIVITIES OHM-METERS	AVERAGE RESISTIVITY OHM-METERS
TWP 18 RGE 27 W3	GRAVELBOURG	1	0.790	0.790
TWP 19 RGE 27 W3	VIKING	1	0.572	0.572
TWP 22 RGE 27 W3	VIKING	1	0.556	0.556
TWP 25 RGE 27 W3	VIKING	3	0.500 - 0.520	0.507
TWP 29 RGE 27 W3	BIRDBEAR	1	0.276	0.276
TWP 30 RGE 27 W3	VIKING	1	0.360	0.360
	DETRITAL	1	0.365	0.365
TWP 31 RGE 27 W3	RIBSTONE CREEK	1	0.871	0.871
	BLAIRMORE	1	0.390	0.390
	BAKKEN	3	0.314 - 0.425	0.351
TWP 32 RGE 27 W3	LEA PARK	1	1.320	1.320
	RIBSTONE CREEK	1	1.920	1.920
	BLAIRMORE	1	0.427	0.427
	BAKKEN	6	0.268 - 0.410	0.323
TWP 39 RGE 27 W3	SPARKY	2	0.148 - 0.154	0.151
TWP 47 RGE 27 W3	SPARKY	1	0.091	0.091
	G.P.	1	0.089	0.089
TWP 48 RGE 27 W3	RIBSTONE CREEK	1	4.000	4.000
TWP 49 RGE 27 W3	SPARKY	1	0.100	0.100
TWP 50 RGE 27 W3	SPARKY	1	0.075	0.075
TWP 51 RGE 27 W3	MCLAREN	1	0.154	0.154
	WINNIPEGOSIS-ASHERN-INTERLAKE	1	0.057	0.057
TWP 53 RGE 27 W3	DUPEROW	1	0.380	0.380
	SOURIS RIVER	1	0.120	0.120
TWP 1 RGE 28 W3	VIKING	1	1.250	1.250
	MADISON (UNDIFF)	1	2.520	2.520
	BIRDBEAR	1	1.080	1.080
TWP 2 RGE 28 W3	GRAVELBOURG	1	1.500	1.500
TWP 4 RGE 28 W3	UPPER-LOWER SHAUNAVON	1	1.040	1.040
TWP 5 RGE 28 W3	VIKING	1	0.920	0.920
	UPPER SHAUNAVON	1	1.000	1.000
TWP 6 RGE 28 W3	VIKING	1	0.938	0.938
	UPPER SHAUNAVON	1	1.580	1.580
	LOWER SHAUNAVON	1	1.200	1.200
TWP 7 RGE 28 W3	UPPER SHAUNAVON	1	1.520	1.520
TWP 10 RGE 28 W3	VIKING	1	1.340	1.340
TWP 11 RGE 28 W3	MEDICINE HAT	1	0.680	0.680
	MADISON (UNDIFF)	1	0.850	0.850
TWP 12 RGE 28 W3	MEDICINE HAT	3	0.530 - 0.570	0.557
TWP 18 RGE 28 W3	DUPEROW	3	0.110 - 0.160	0.135
TWP 18 RGE 28 W3	DEADWOOD	2	0.200 - 0.420	0.310
TWP 19 RGE 28 W3	JURASSIC-MADISON (UNDIFF)	1	0.600	0.600
TWP 22 RGE 28 W3	BAKKEN	1	0.548	0.548
	DUPEROW	1	0.063	0.063
TWP 23 RGE 28 W3	VIKING	1	0.535	0.535
	BAKKEN	1	1.040	1.040
TWP 25 RGE 28 W3	VIKING	2	0.450 - 0.560	0.505
TWP 28 RGE 28 W3	VIKING	1	0.320	0.320
TWP 30 RGE 28 W3	BAKKEN	1	0.425	0.425
TWP 31 RGE 28 W3	BLAIRMORE	1	0.355	0.355
TWP 32 RGE 28 W3	BLAIRMORE	2	0.350 - 0.445	0.398
	BAKKEN	3	0.320 - 0.570	0.407
TWP 33 RGE 28 W3	BLAIRMORE	1	0.400	0.400
	BAKKEN	1	0.336	0.336
TWP 34 RGE 28 W3	BLAIRMORE	2	0.361 - 0.398	0.380
	BAKKEN	1	0.376	0.376
TWP 36 RGE 28 W3	BLAIRMORE	1	0.320	0.320
TWP 38 RGE 28 W3	BLAIRMORE	1	0.260	0.260
TWP 42 RGE 28 W3	BLAIRMORE	1	0.095	0.095
TWP 43 RGE 28 W3	SPARKY	1	0.097	0.097
TWP 44 RGE 28 W3	SPARKY	1	0.147	0.147
TWP 1 RGE 29 W3	VIKING	1	1.580	1.580
	BIRDBEAR	1	1.200	1.200
TWP 2 RGE 29 W3	MADISON (UNDIFF)	1	1.620	1.620
	BIRDBEAR	1	0.850	0.850
TWP 6 RGE 29 W3	MILK RIVER	1	0.730	0.730
	GRAVELBOURG	1	1.280	1.280
TWP 9 RGE 29 W3	VIKING	1	2.350	2.350
	UPPER SHAUNAVON	1	1.550	1.550
	LOWER GRAVELBOURG	1	1.380	1.380
TWP 11 RGE 29 W3	VIKING	2	1.050 - 1.120	1.085
	GRAVELBOURG	1	1.300	1.300
TWP 12 RGE 29 W3	MEDICINE HAT	1	0.462	0.462
TWP 25 RGE 29 W3	VIKING	3	0.380 - 0.410	0.397
	DETRITAL	1	0.560	0.560
	BAKKEN	1	0.465	0.465
TWP 27 RGE 29 W3	VIKING	1	0.280	0.280
TWP 32 RGE 29 W3	BLAIRMORE	1	0.345	0.345
TWP 13 RGE 30 W3	MEDICINE HAT	1	0.520	0.520
	VIKING	1	0.840	0.840

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Saskatchewan
Energy and Mines

Minister: Hon. W. Colin Thatcher
Ph. 565-2506

Deputy Minister: Don Moroz
Ph. 565-2496

Petroleum and Natural Gas Division
1914 Hamilton Street
Regina, Canada
S4P 4V4
Executive Director: D. R. Gillard, P.Eng.
Ph. 565-2591

Engineering Services Branch
Director: M. A. Sereda, P.Eng.
Ph. 565-2318

Petroleum Development Branch
Director: J. L. Gossard
Ph. 565-2593

Field Offices
Estevan-1219 Fifth Street S4A 0Z1
Officer in Charge: A. K. Kraus
Ph. 634-3671

Swift Current-350 Cheadle Street West S9H 4G3
Officer in Charge: A. R. Dafoe
Ph. 773-4213

Kindersley-Box 850 S0L 1S0
Officer in Charge: G. N. Julseth
Ph. 463-2523

Lloydminster-5305-50th Avenue S9V 0P9
Officer in Charge: B. Mathieson
Ph. (403) 825-8977

POOR

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